

# KV-2185MT / 2185MTJ

## RM-827S

## SERVICE MANUAL

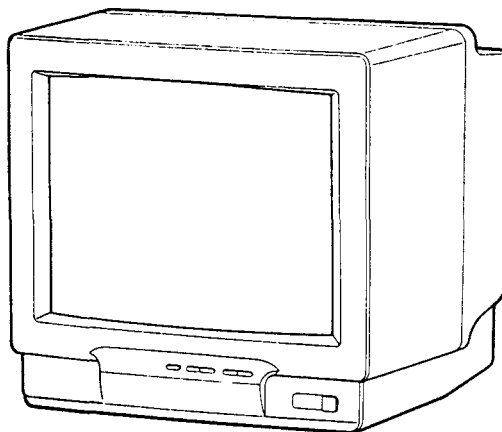
*ME Model*

*KV-2185MT*

*Chassis No. SCC-F21B-A*

*KV-2185MTJ*

*Chassis No. SCC-F21A-A*



## G3E CHASSIS

### MODELS OF THE SAME SERIES

KV-2185MTJ/1485MTJ/MTJ

KV-1487MT/1487MD

### SPECIFICATIONS

Power requirements 110-240 V AC, 50/60 Hz  
 Power consumption Indicated on the rear of the TV  
 Color system PAL, PAL60, NTSC<sup>4.43</sup>, NTSC<sup>3.58</sup>, SECAM  
 Television system and Channel coverage

Television system	M	B/G	I	D/K
Low VHF band	A2-A6	E2-E4	-	R1-R5
High VHF band	A7-A13	E5-E12	-	R6-R12
UHF	A14-A79	E21-E69	B21-B68	R21-R60
CATV	-	S01-S03 S1-S20	-	-

Audio output 3 W  
 Inputs Antenna: 75 ohms  
 VIDEO INPUT jacks: phono jacks  
 Video: 1 Vp-p, 75 ohms  
 Audio: 500 mVrms, high impedance  
 Picture tube Approx. 54 cm (21 inches)  
 Dimensions Approx. 520 × 462.5 × 486 mm (w/h/d)  
 Weight Approx. 24 Kg

Design and specifications are subject to change without notice.



TRINITRON® COLOR TV  
**SONY®**


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### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## SECTION 1

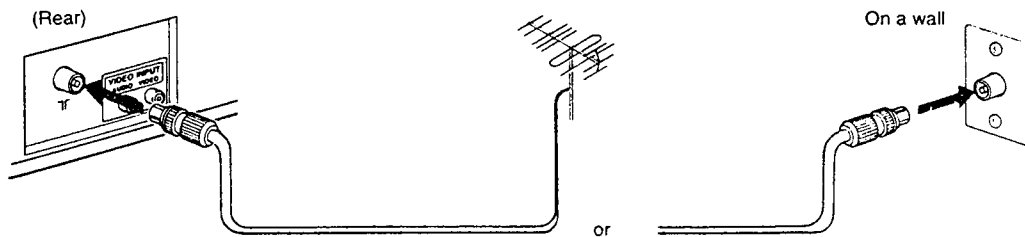
### GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

#### 1-1. ANTENNA CONNECTION

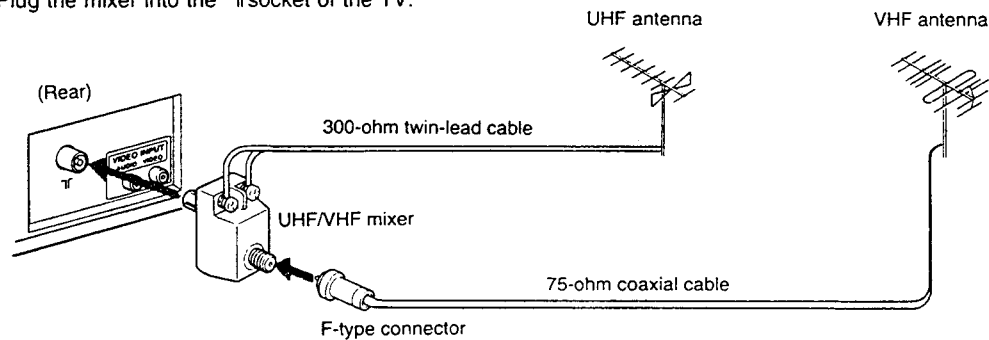
##### To connect a VHF antenna or a combination VHF/UHF antenna— 75-ohm Coaxial Cable (Round)

Plug the connector into the  $\Gamma$ socket of the TV.

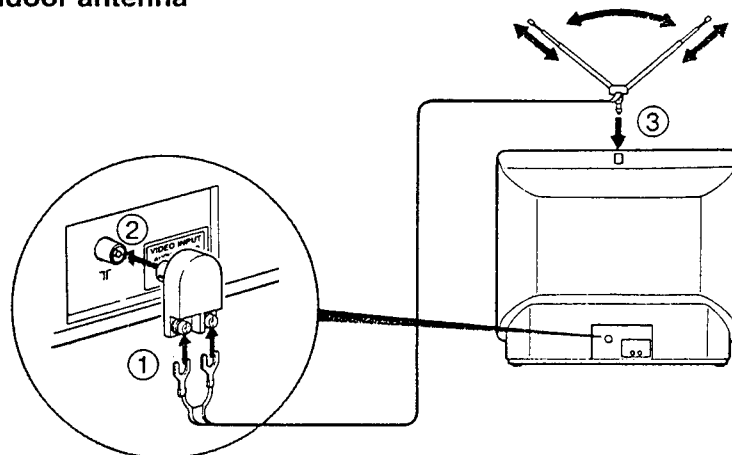


##### To connect both VHF and UHF antennas

- 1 Attach the antenna cable ends to the UHF/VHF mixer.
- 2 Plug the mixer into the  $\Gamma$ socket of the TV.

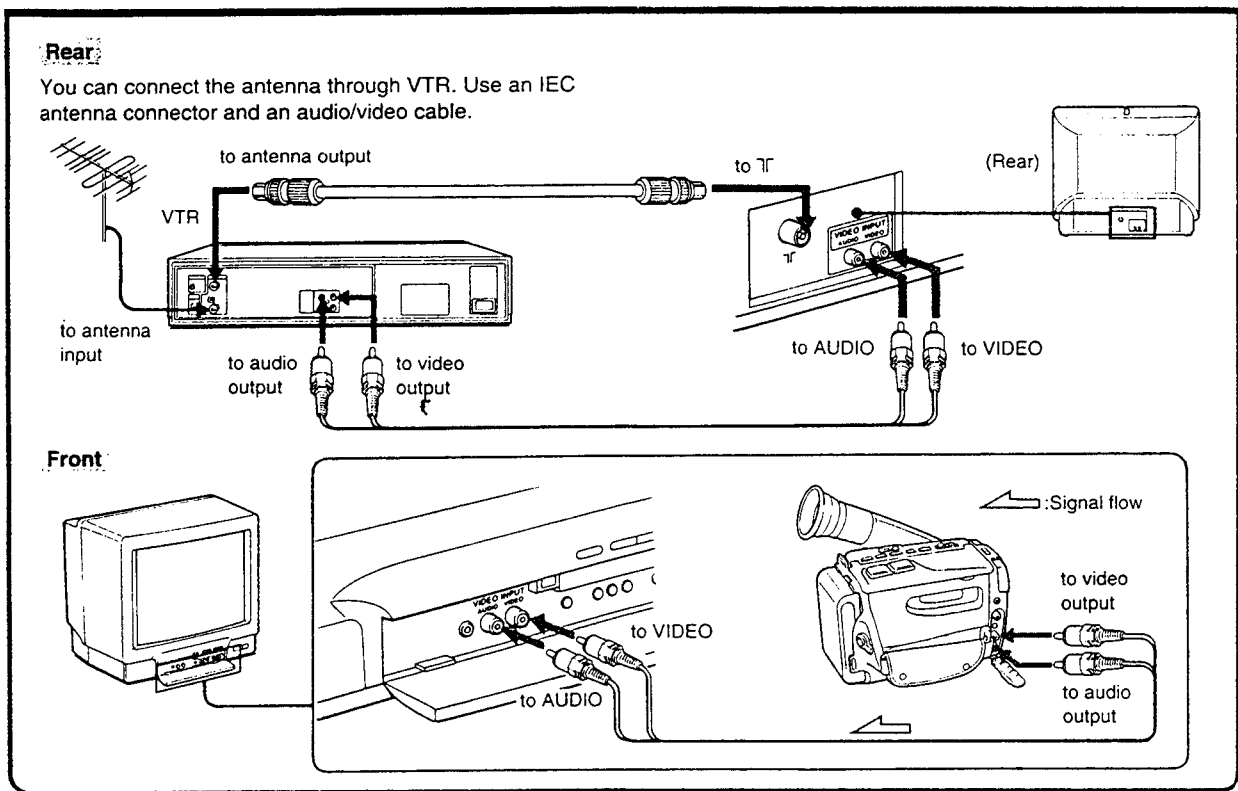


##### To connect the indoor antenna

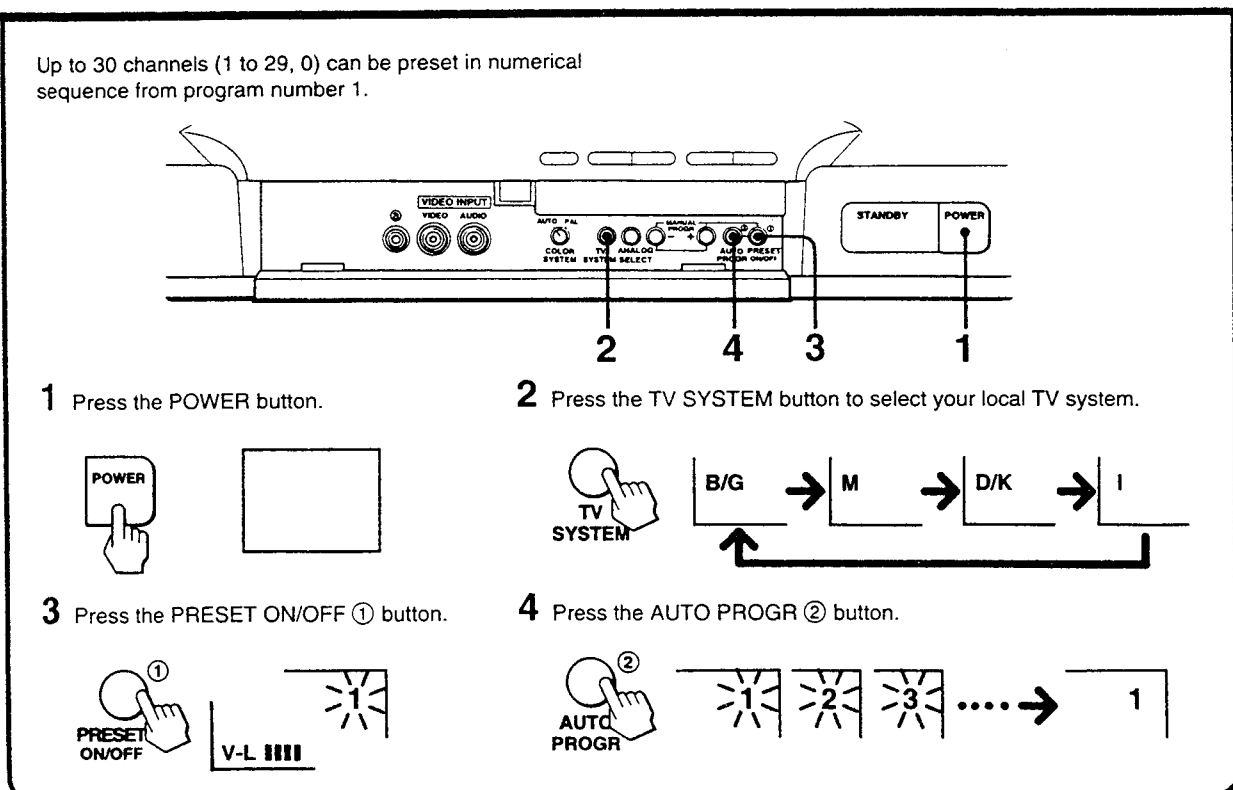


We recommend using an outdoor antenna for better reception.

## 1-2. CONNECTING VTR OR OTHER EQUIPMENT

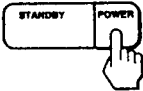


## 1-3. PRESET THE CHANNELS AUTOMATICALLY



#### 1-4. WATCHING THE TV

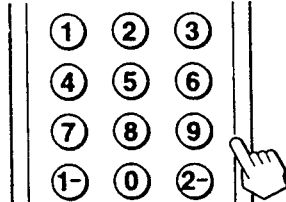
**To switch on or off the TV**





The power of the TV is turned on, or off completely.


➔
➔

**To select a channel**




To select 8, 

To select 10, 

To select 25, 

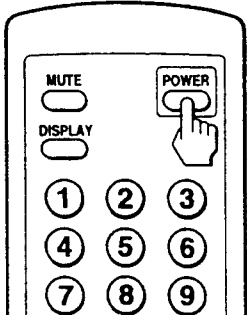
or



**PROGR**

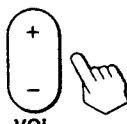
➔
➔

**To set the TV to standby mode**




To turn on the TV, press again.

**To adjust the volume**



**VOL**

You can operate on the TV using the buttons of the same name.

**For personal listening,** an earphone can be connected to the  jack.

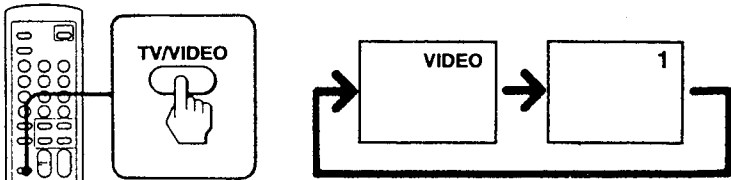
#### 1-5. WATCHING THE VIDEO INPUT

**1** Press the TV/VIDEO button.

**2** Set the VTR to playback mode.

**To return to TV mode**  
Press the TV/VIDEO button.

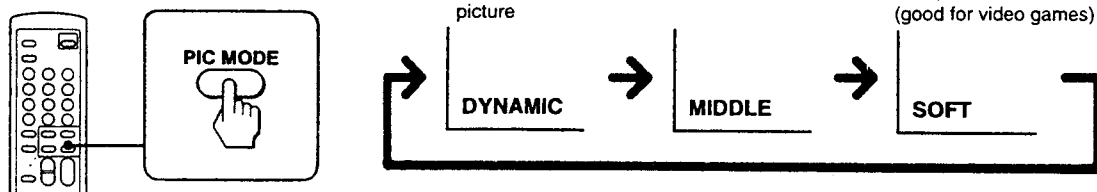
**Note**  
Do not use the VTRs connected to the front and rear A/V connectors simultaneously. When you use a VTR, turn off or disconnect another VTR.



## 1-6. ADJUSTMENT

### Selecting the Picture Mode

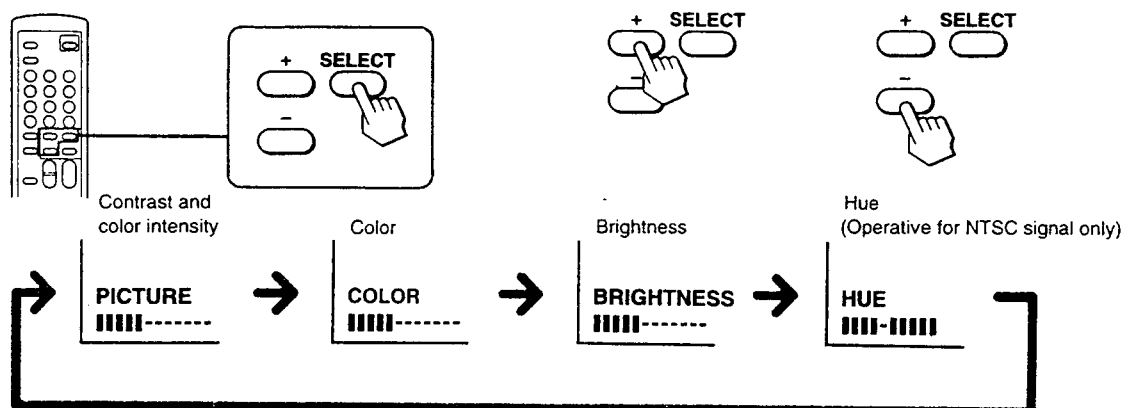
Press the PIC MODE button.



### Adjusting the Picture to Your Preference

- 1 Select the adjustment item using the SELECT button on the Remote Commander (or ANALOG SELECT button on the TV).

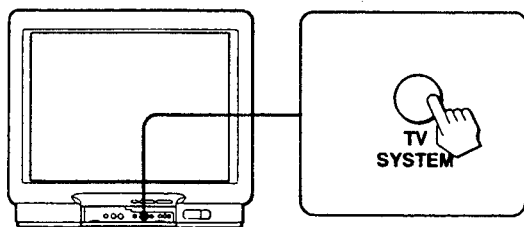
- 2 Adjust using the + and - buttons.



#### Note

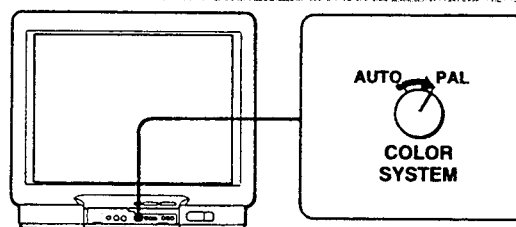
If you change the PIC MODE setting after the above adjustments, the adjustment changes in accordance with the PIC MODE setting.

### To set TV SYSTEM



If the sound is distorted or noisy, or color is abnormal while receiving program through the VHF/UHF terminal, press TV SYSTEM until a clear sound or normal color is obtained. The TV system set by this operation is memorized for the program position.

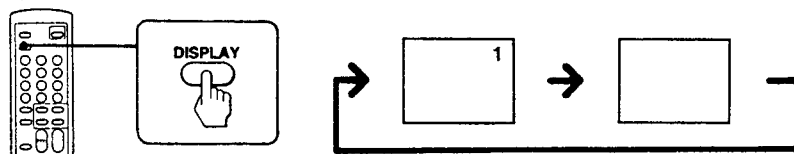
### To set COLOR SYSTEM



Normally set COLOR SYSTEM to AUTO. If the color reproduction is abnormal (for example, the picture turns red or blue) while receiving PAL and PAL 60 playback signal, set to PAL. The picture color will become normal.

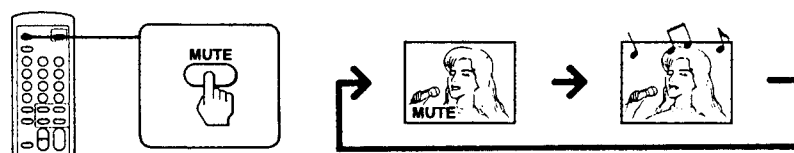
## Turning On or OFF the On-screen Display

Press the DISPLAY button.



## Muting

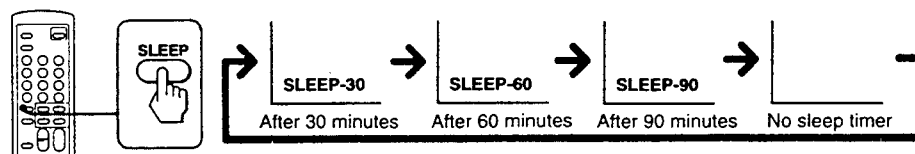
Press the MUTE button.



## Setting the Sleep Timer

The TV will be turned off after about 30, 60, or 90 minutes.

Press the SLEEP button.



### To cancel the sleep timer

Press the SLEEP button until the sleep indication disappears.

## 1-7. ADDITIONAL PRESETTING

### Manual Presetting

To change the program number for a channel, or to receive a channel of weak signal, preset the channel manually.

Example: To preset a channel in program number 8

- 1** Press the PRESET ON/OFF button.
- 2** Press the PROGR +/- button until "8" appears.
- 3** Press the TV SYSTEM button to select your TV system.
- 4** Press the MANUAL PROGR +/- buttons until the channel you want appears.
- 5** Press the PRESET ON/OFF button.

To preset other channels, repeat steps 1 through 5.

### Skipping Program Positions

You can skip the unused or undesired program position when you are selecting a program using the PROGR +/- buttons.

Example: To skip the program position 8

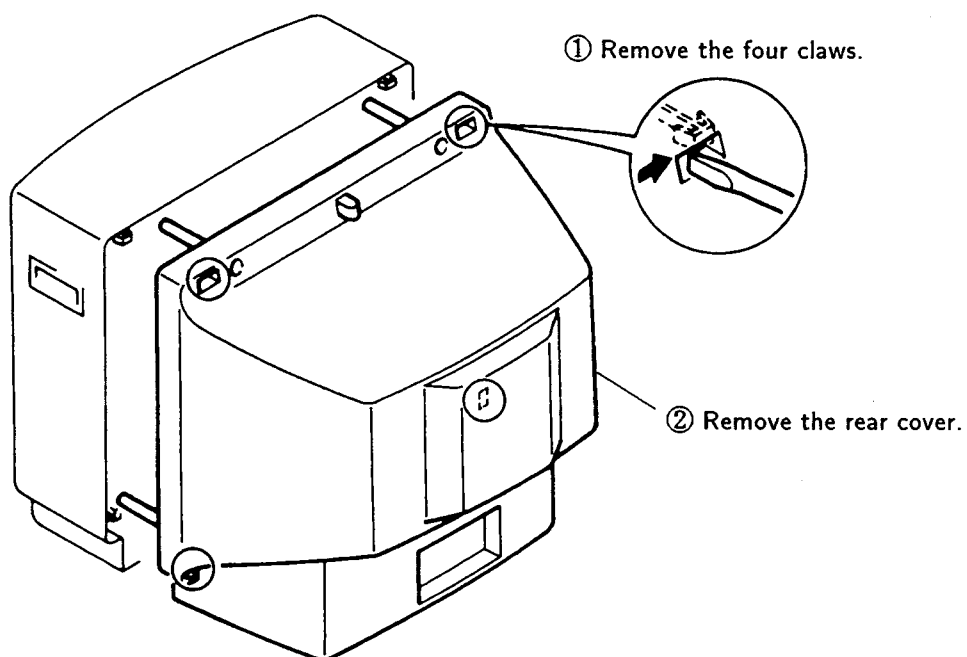
- 1** Press the PROGR +/- buttons until "8" appears.
- 2** Press the PRESET ON/OFF button.
- 3** Press the PIC MODE button on the Remote Commander.  
Repeat steps 1 through 3 to skip other program position.
- 4** Press the PRESET ON/OFF button.

### To restore the skipped program position

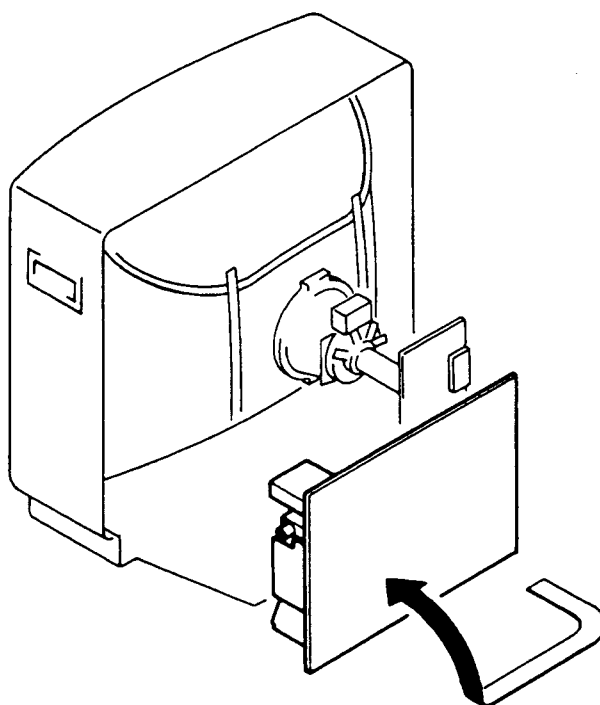
Preset the station manually as described in "Manual Presetting", or preset automatically again.

## **SECTION 2 DISASSEMBLY**

### **2-1. REAR COVER REMOVAL**

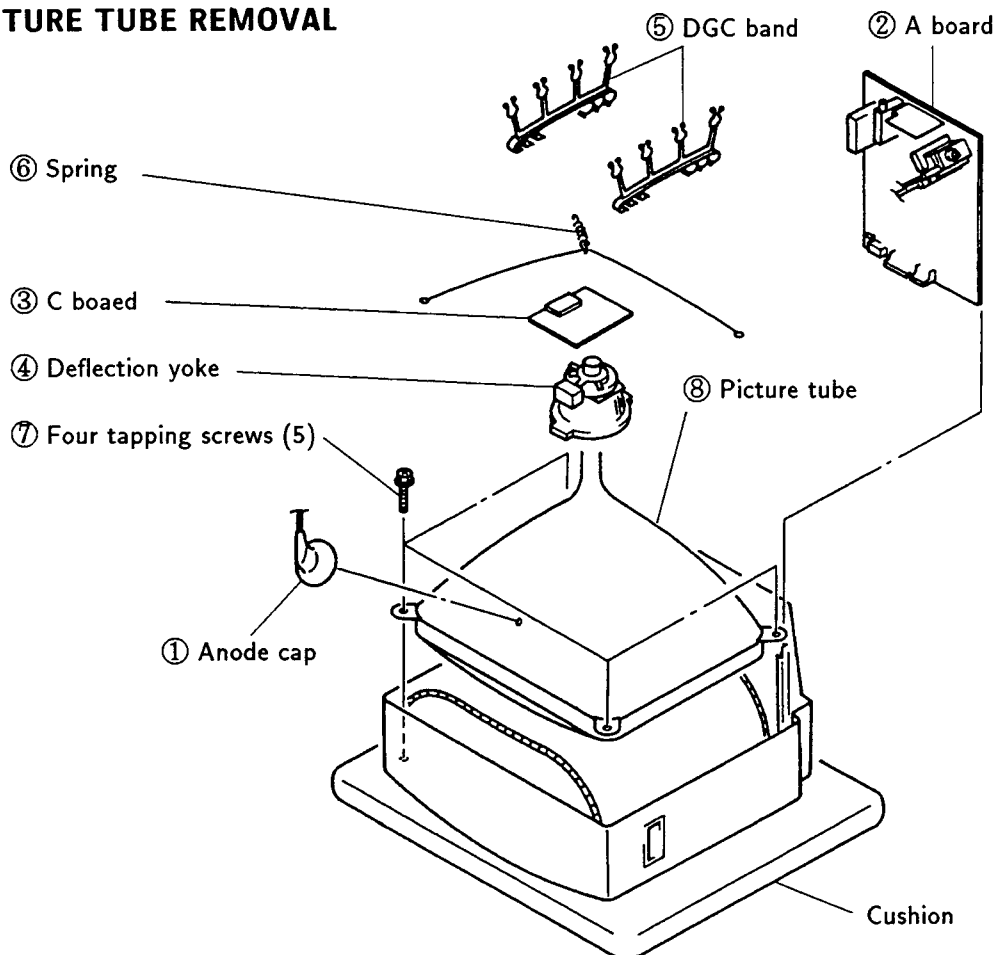


### **2-2. SERVICE POSITION**





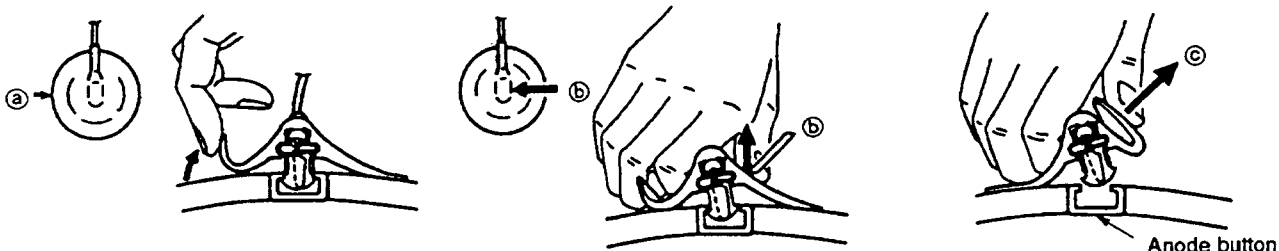
## 2-3. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

### • REMOVING PROCEDURES

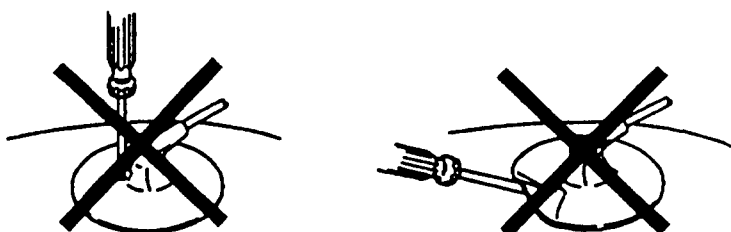


- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.

- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!  
The shatter-hook terminal will stick out or hurt the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted :

PICTURE control..... normal

BRIGHTNESS control..... normal

Perform the adjustments in order as follows:

#### Preparation:

- Feed in the white pattern signal.
- Before starting, degauss the entire screen.

#### 3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets. (Fig.4)

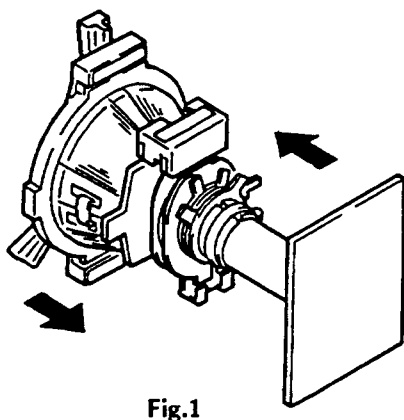


Fig.1

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

**Note:** Test Equipment Required.

1. Color bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

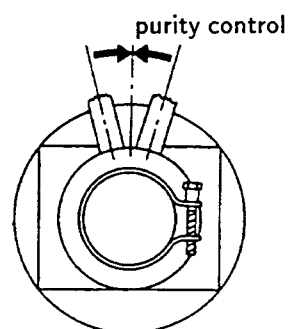


Fig.2

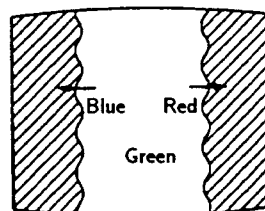


Fig.3

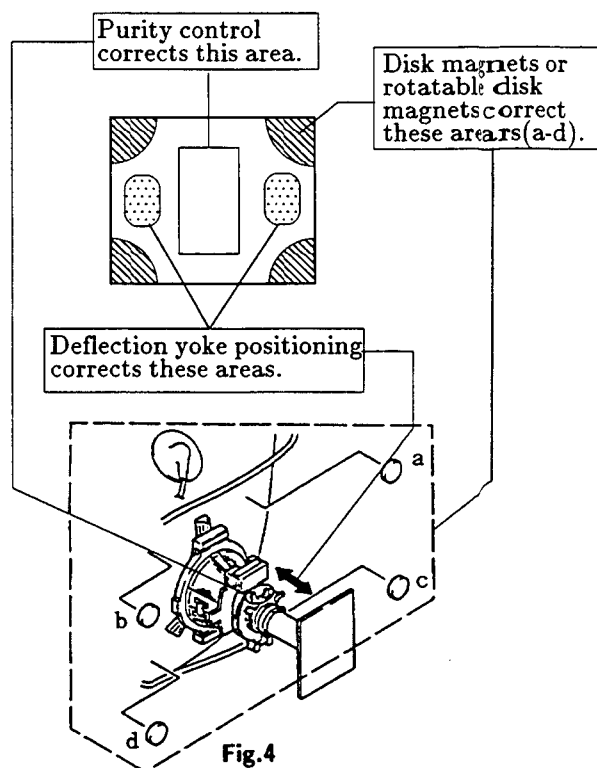


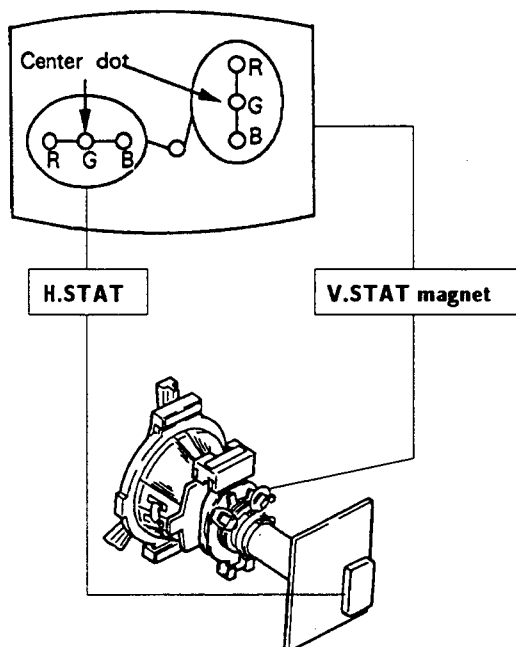
Fig.4

## 3-2. CONVERGENCE

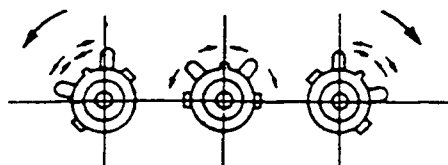
### Preparation:

- Before starting, perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

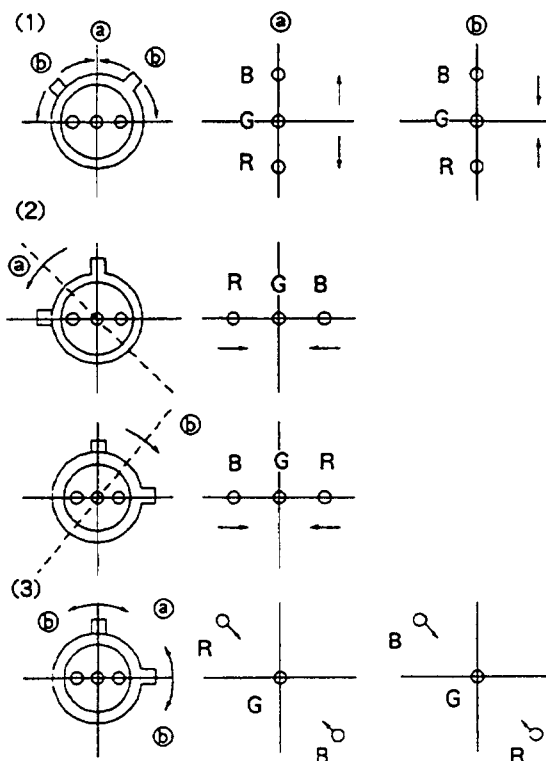
### (1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
  2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
  3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizon-tal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

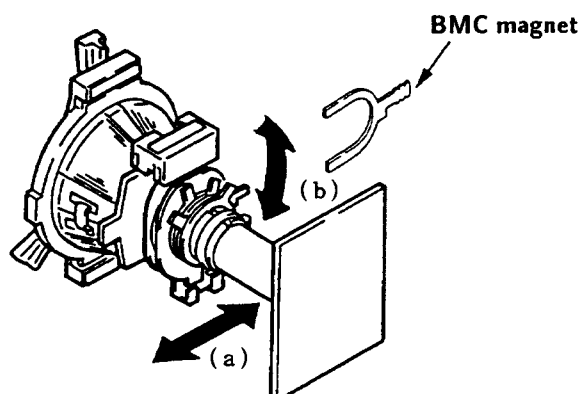


If the blue dot does not converge with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.



## (2) Dynamic Convergence Adjustment

### Preparation:

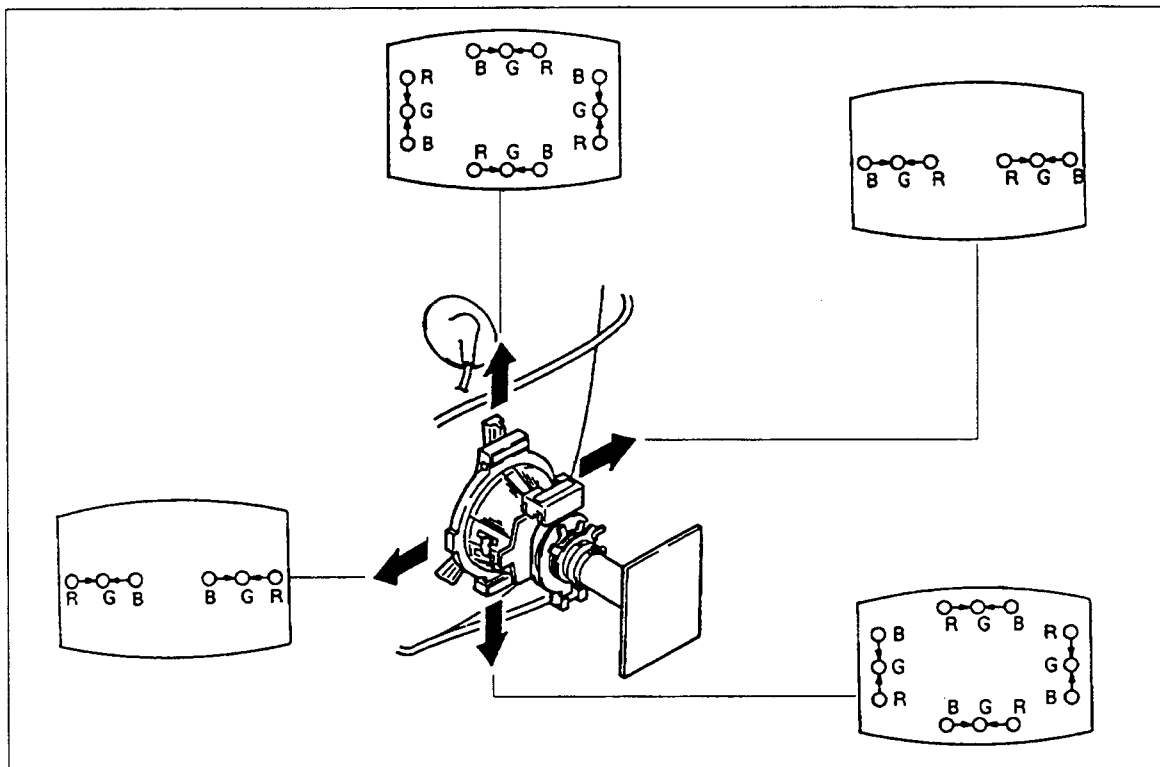
- Before starting perform Horizontal and Vertical static convergence Adjustment.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.

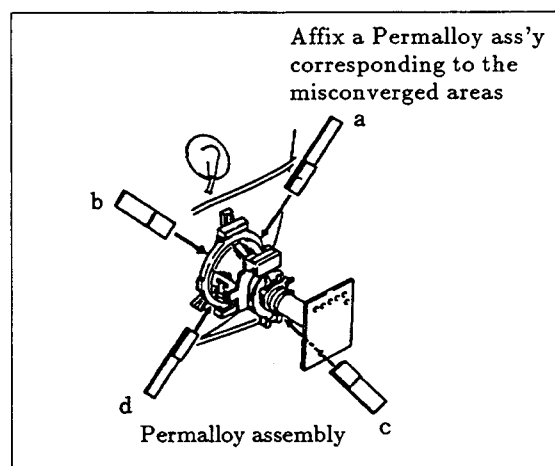
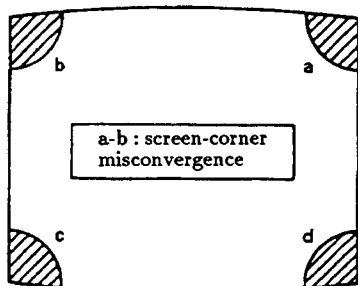
3. Move the deflection yoke for best convergence as shown below.

4. Tighten the deflection yoke screw.

5. Install the deflection yoke spacers.

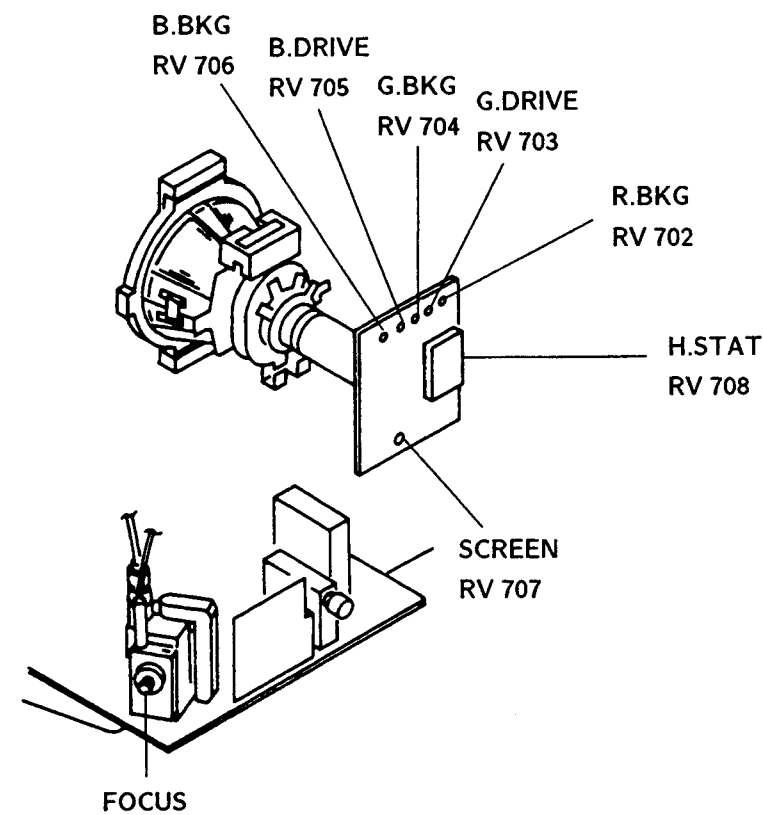


## (3) Screen-corner Convergence



## SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. A BOARD ADJUSTMENT



### 3-3. FOCUS

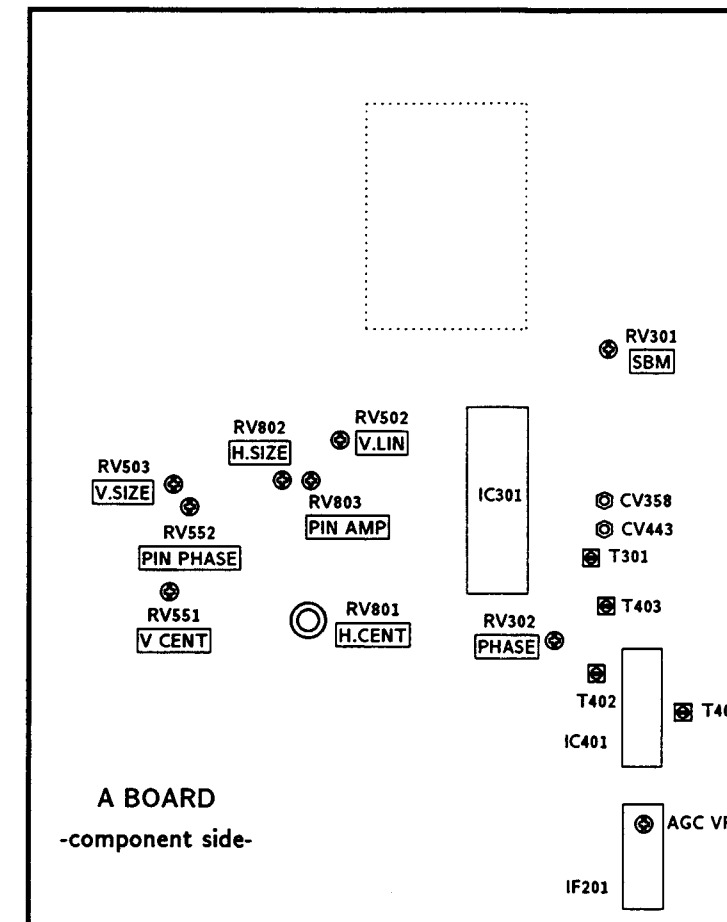
Adjust FOCUS control for best picture.

### 3-4. SCREEN(G 2) and WHITE BALANCE [SCREEN(G2)]

1. Input a dots pattern.
2. Set the PIC, BRT controls at minimum and COLOR control at 50%.
3. Confirm the BKG voltage is less than 165 Vdc when turning RV 706 (B.BKG), RV 704 (G.BKG) and RV 702 (R.BKG).
4. Note the color when becomes visible first when turning RV707 (SCREEN).

### [WHITE BALANCE]

1. Input a all white signl.
2. Set the PIC control to minimum and set the BRT control at normal.
3. Turn RV 703 (G.DRIVE) and RV 705 (B.DRIVE) fully clockwise.
4. Adjust BKG controls for best white balance.
5. Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
6. Repeat steps 4 and 5.



### RF AGC ADJUSTMENT (IF201)

1. Receive a strong off-air signals.
2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

### A • P • C ADJUSTMENT (CV443)..... (PAL)

1. Short circuit between pin ④ and pin ④⑦ of IC301 with jumper.
2. Input the PAL color-bar signal.
3. Set the PIC, COL, and BRT controls to normal.
4. Adjust CV443 for suitable color intensity.
5. Remove a jumper.

### A • P • C ADJUSTMENT (CV358)..... (NTSC)

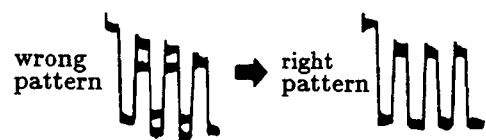
1. Short circuit between pin ④ and pin ④⑦ of IC301 with a jumper.
2. Input NTSC 3.58 color-bar signal.
3. Set the PIC, COL and BRT controls to normal.
4. Adjust CV358 for suitable color intensity.
5. Remove the jumper.

# **ANTI PAL, LINE CRAWLING ADJUSTMENT** (RV301,RV302,T301)

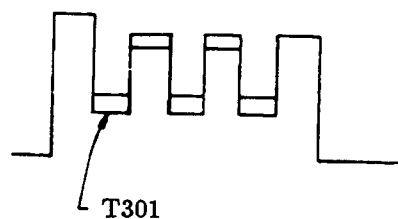
## • ANTI PAL ADJUSTMENT

1. Input the PAL color-bar signal.
2. Set the PIC,COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust RV301 (DELAY) and RV302(PHASE) to obtain the waveform as shown below.

## • LINE CRAWLING ADJUSTMENT

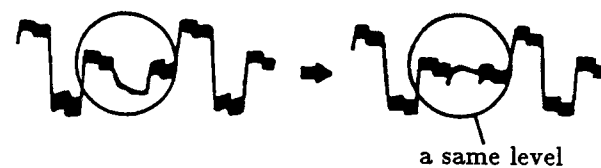


1. Input the PAL color-bar signal.
2. Set the PIC,COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust T301 for minimum line crawling.



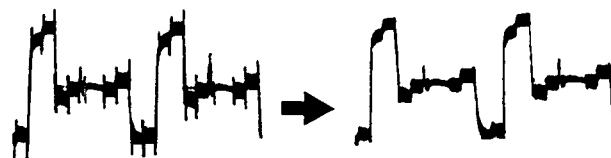
# **DISCRI ADJUSTMENT (T401,T402)**

1. Input the SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to the pin ⑪ (B-Y) and pin ⑩ (R-Y) of IC401.
3. Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.

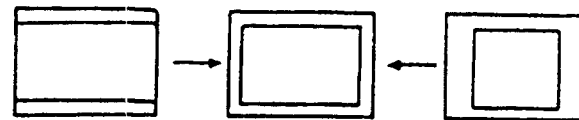


# **BELL FILTER ADJUSTMENT (T403)**

1. Input the SECAM color-bar signal.
2. Connect the oscilloscope to pin ⑩ (R-Y) of IC 401.
3. Adjust T403 as shown the following figure.



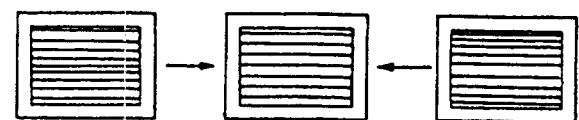
# **RV802 H.SIZE (HORIZONTAL SIZE)**



# **RV503 V.SIZE (VERTICAL SIZE)**



# **RV502 V.LIN (VERTICAL LINEARITY)**



# **RV801 H.CENT (HORIZONTAL CENTER)**



# **RV551 V.CENT (VERTICAL CENTER)**



# **RV552 PIN PHASE (PINCUSHION PHASE)**



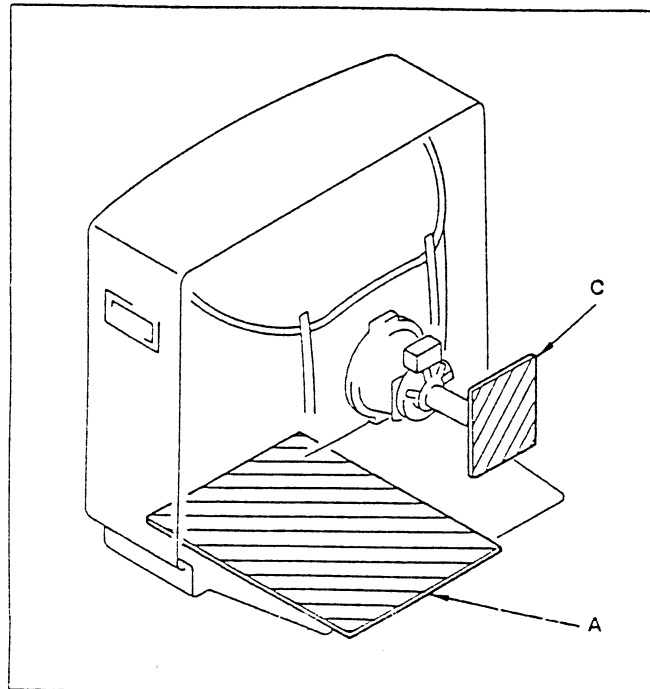
# **RV803 PIN AMP (PINCUSHION AMPLIFIER)**



# SECTION 5 DIAGRAMS

## (1) Schematic Diagram of A Board

### 5-1. CIRCUIT BOARDS LOCATION



### 5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

#### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  $\text{k}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{k}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm  
Rating electrical power  $\frac{1}{4}\text{W}$

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.

**Note:** The components identified by shading and mark are critical for safety. Replace only with part number specified.

#### Reference information

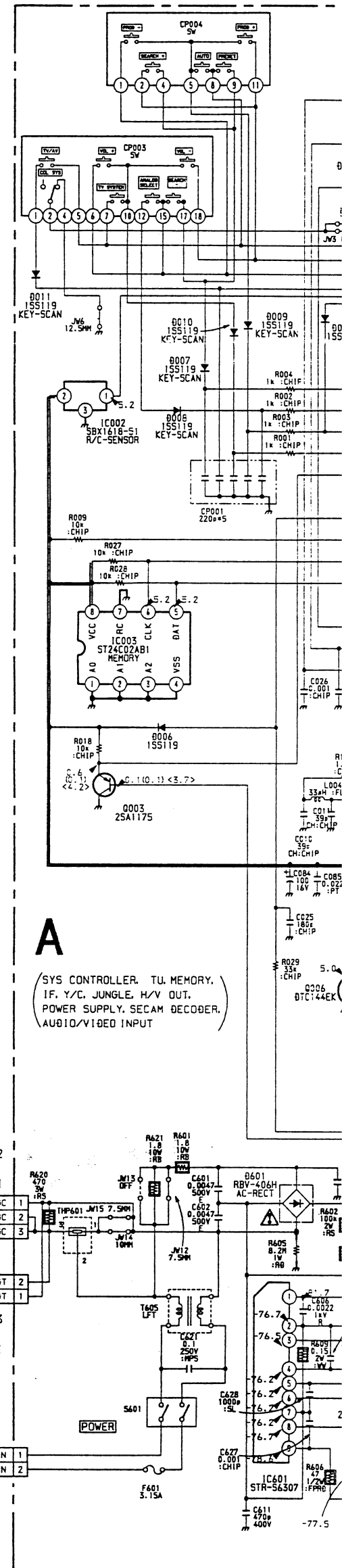
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	:	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

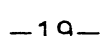
- Readings are taken with a color-bar signal input. no mark : with PAL color-bar signal received. ( ) : with SECAM color-bar signal received. < > : with NTSC3.58 color-bar signal received.
- Readings are taken with a 10M $\Omega$  digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

#### • A BOARD WAVEFORMS

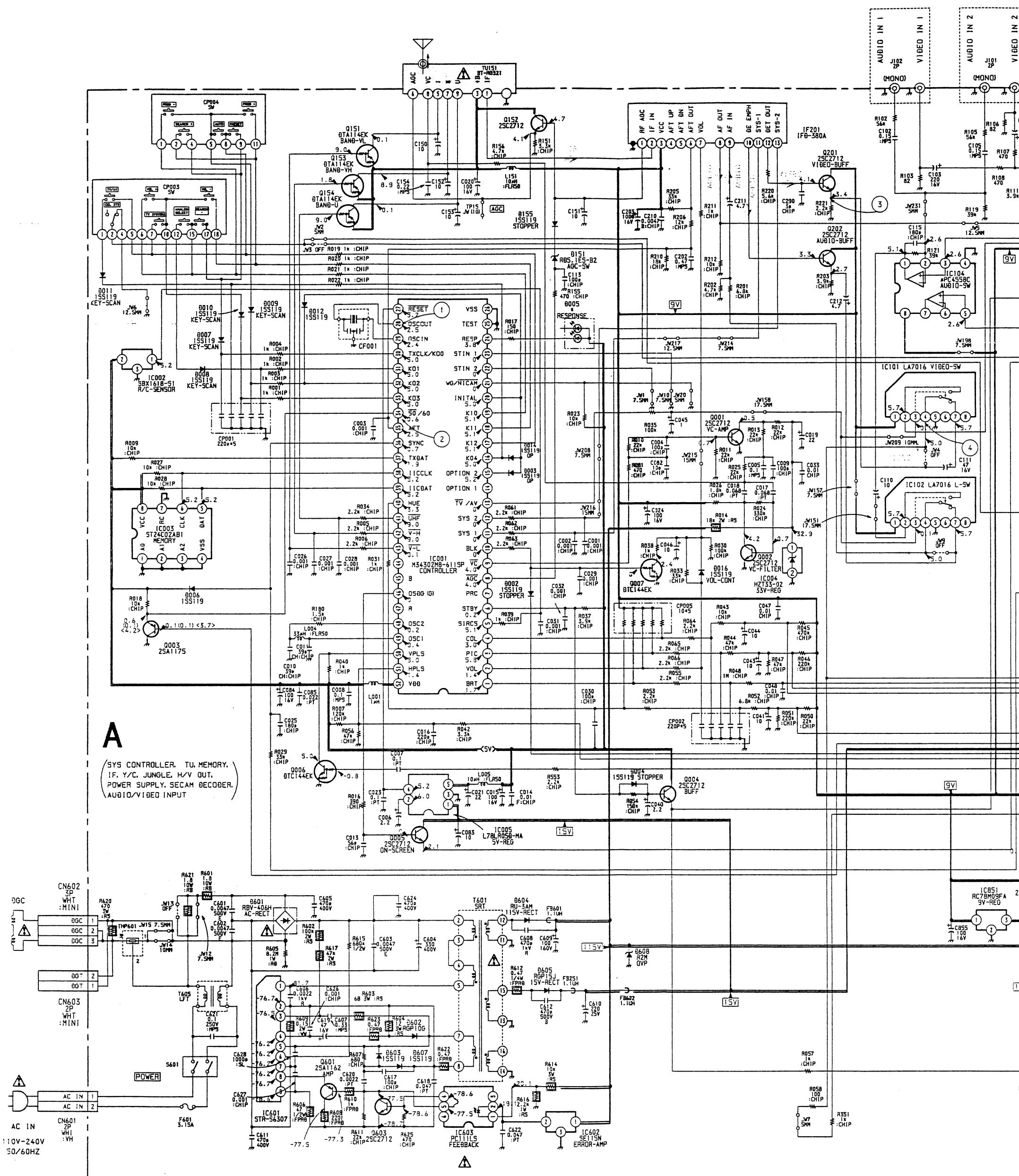
①  6.0Vp-p (4.0MHz)	②  0.6Vp-p (H)	③  1.9Vp-p (H)
④  1.9Vp-p (H)	⑤ PAL. NTSC  0.5Vp-p (H)	⑥ PAL. NTSC  0.5Vp-p (H)
⑦ PAL  0.3Vp-p (H)	⑧ PAL  0.45Vp-p (H)	⑨ PAL  0.6Vp-p (H)
⑩  0.26Vp-p (4.43MHz)	⑪  0.16Vp-p (3.58MHz)	⑫  1.5Vp-p (H)
⑬  2.4Vp-p (V)	⑭  4.0Vp-p (H)	⑮  2.0Vp-p (H)
⑯  1.8Vp-p (H)	⑰  4.0Vp-p (H)	⑱  4.0Vp-p (H)
⑲  4.0Vp-p (H)	⑳  0.9Vp-p (H)	㉑ SECAM  0.24Vp-p (H)
㉒ SECAM  1.0Vp-p (H)	㉓ SECAM  1.4Vp-p (H)	㉔ SECAM  3.3Vp-p (H)
㉕  50Vp-p (V)	㉖  1.5Vp-p (V)	㉗  900Vp-p (H)
㉘  170Vp-p (H)	㉙  10Vp-p (V)	

B-SS4187 < ME. > -A < WAVE LIST > -1  
-2



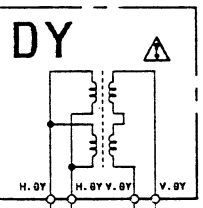






**A**

(SYS CONTROLLER, TU, MEMORY,  
IF, Y/C, JUNGLE, H/V OUT,  
POWER SUPPLY, SECAM DECODER,  
AUDIO/VIDEO INPUT)

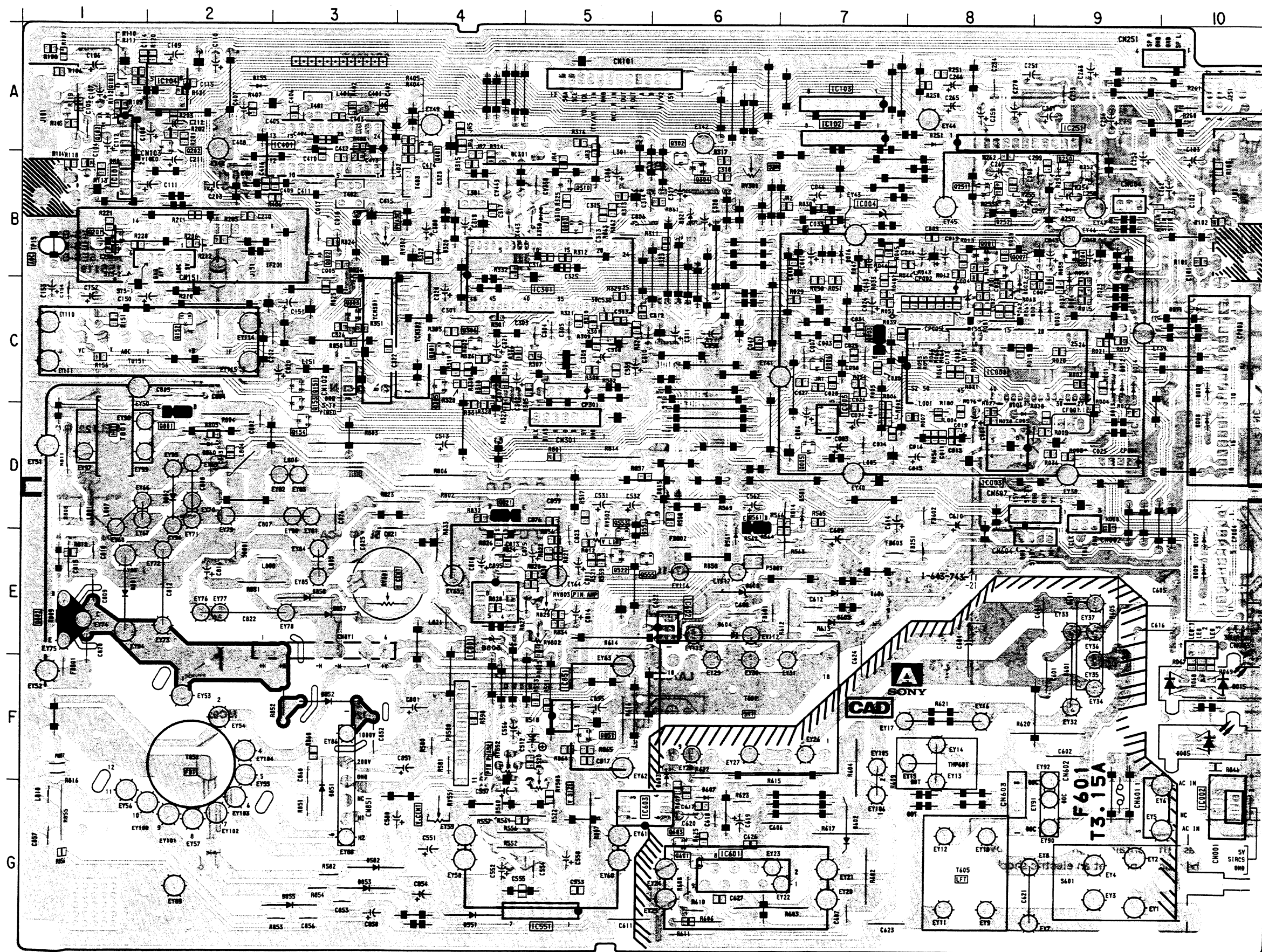




**KV-2185MT/2185MTJ**  
**RM-827S**

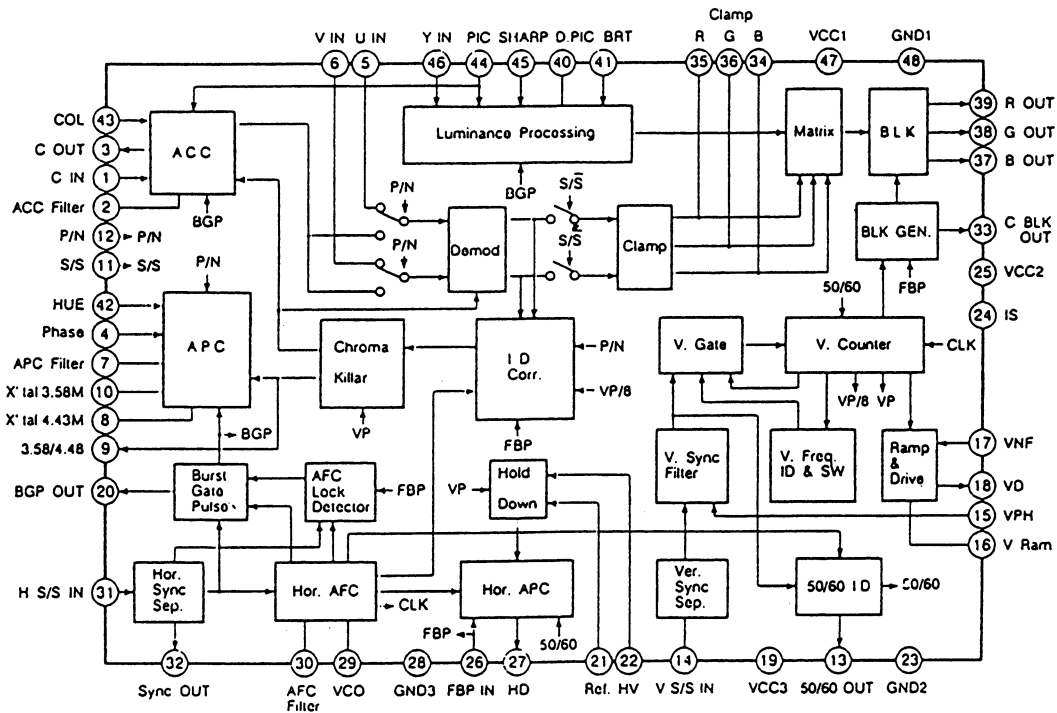
– A Board –

Board No	
1-643-743-11	KV-2185MTJ only
1-643-743-21	KV-2185MT only

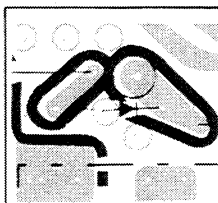
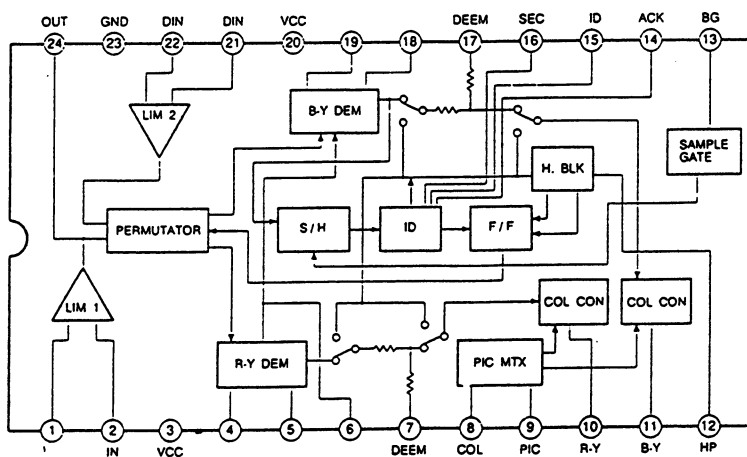


IC		DIODE		VARIABLE RESISTOR	
IC001	C-8	D002	C-8	RV301	B-6
IC002	G-10	D003	C-9	RV302	B-3
IC003	D-8	D004	C-9	RV502	E-5
IC004	B-7	D005	F-10	RV503	G-5
IC005	D-7	D006	D-8	RV551	G-4
IC101	B-1	D007	E-10	RV552	F-4
IC102	A-7	D008	D-10	RV801	E-3
IC104	A-2	D009	E-10	RV802	E-5
IC251	A-9	D010	C-10	RV803	E-5
IC301	C-5	D011	C-10		
IC401	A-3	D012	C-9		
IC551	G-5	D014	C-9		
IC601	G-6	D016	C-7		
IC602	E-6	D151	C-8		
IC603	G-5	D155	A-2		
IC801	E-4	D250	B-9		
IC851	F-5	D251	A-8		
		D252	B-9		
		D310	B-5		
		D320	B-4		
		D321	B-6		
		D551	G-4		
		D561	E-6		
		D601	C-9		
		D602	G-7		
		D603	F-6		
		D604	E-6		
		D605	E-7		
		D607	G-6		
		D608	E-6		
		D801	E-1		
		D802	D-6		
		D803	E-4		
		D851	G-3		
		D852	F-3		
		D853	G-3		
		D855	G-3		
		D857	E-3		
		D858	E-3		
		D860	D-2		
<b>TRANSISTOR</b>					
Q001	B-8				
Q002	B-3				
Q003	C-7				
Q004	B-9				
Q005	D-7				
Q006	C-7				
Q007	B-8				
Q101	A-1				
Q102	A-1				
Q151	C-3				
Q152	C-2				
Q153	D-3				
Q154	D-3				
Q201	B-1				
Q202	A-2				
Q251	B-8				
Q252	B-8				
Q301	C-4				
Q302	B-6				
Q303	C-3				
Q304	B-6				
Q305	C-4				
Q306	C-4				
Q310	B-5				
Q401	A-4				
Q522	E-5				
Q551	D-6				
Q553	E-5				
Q555	E-5				
Q561	D-6				
Q601	G-6				
Q603	G-6				
Q801	D-2				
Q802	E-1				
Q803	B-5				
Q821	D-4				
Q851	F-5				
				<b>DELAY LINE</b>	
				DL301	B-4
				<b>IF BLOCK</b>	
				IF201	B-2
				<b>TUNER</b>	
				TU151	C-1
				<b>CRYSTAL</b>	
				X301	C-5
				X358	B-5
				X443	B-4

**A Board IC301 CXA1213S**



**A Board IC401 CXA1214P**

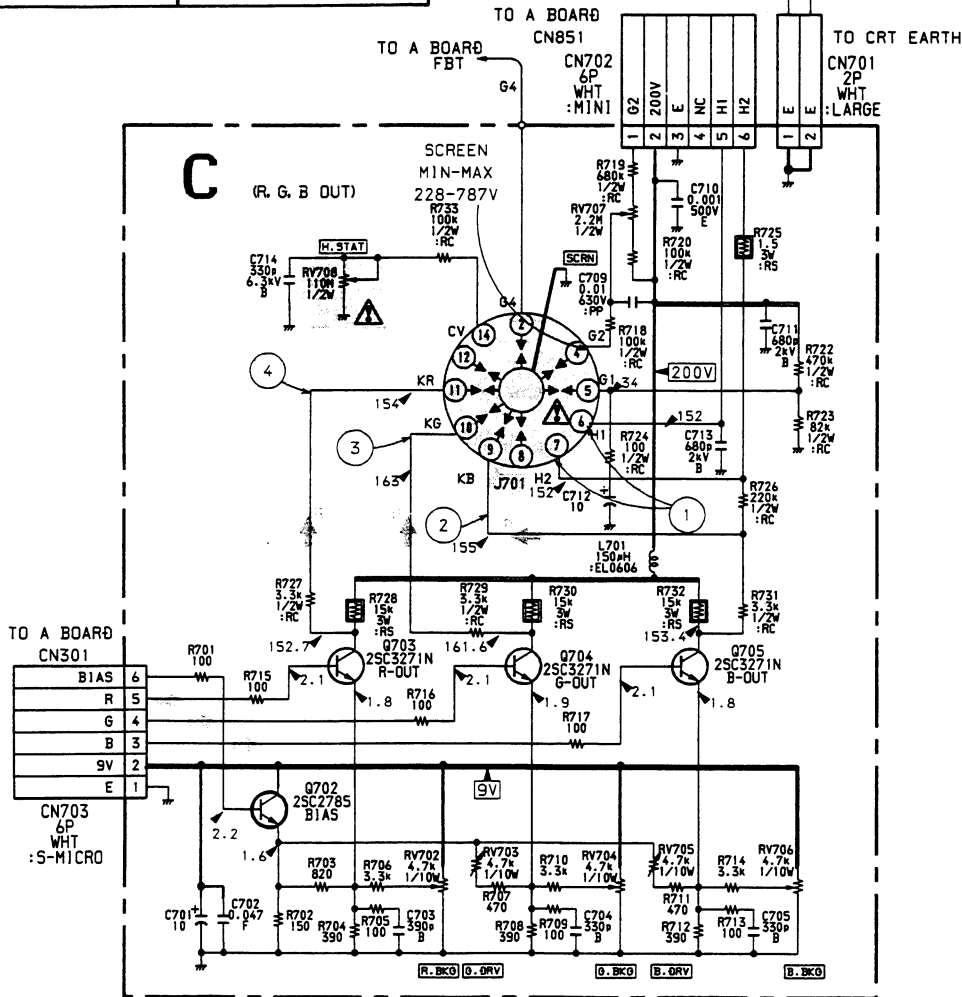
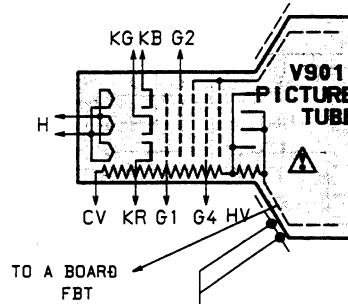
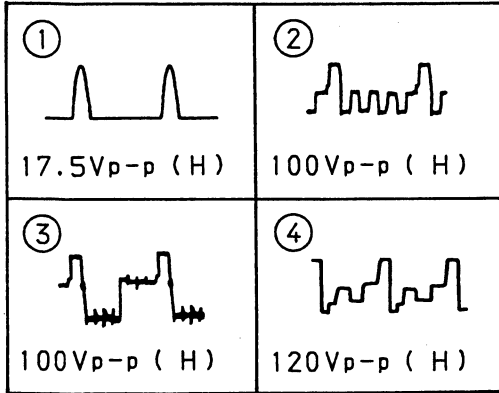


**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

## (2) Schematic Diagram of C Board

### • C BOARD WAVEFORMS



B-SS4187<HE.>-C..

**C**

(R.G.B OUT)

Board No

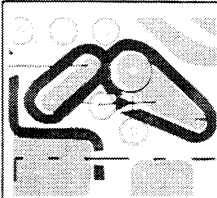
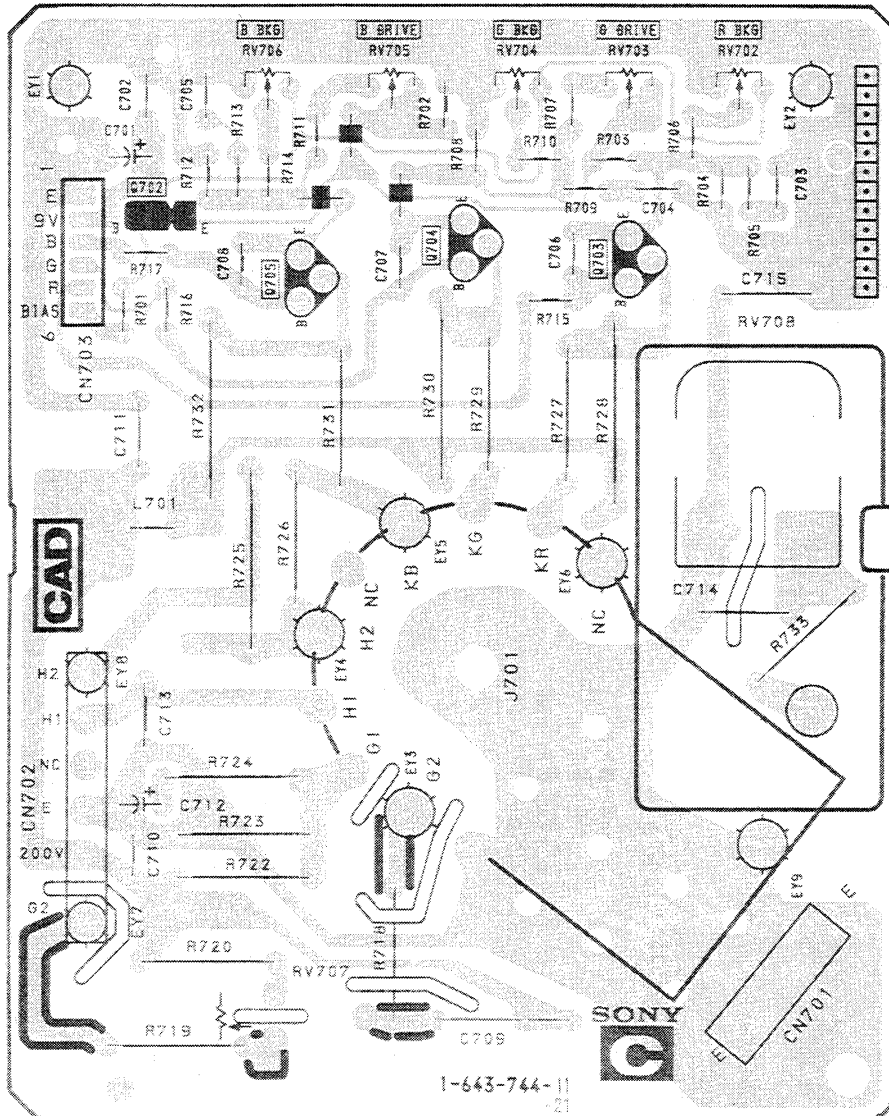
1-643-744-11

KV-2185MTJ only

1-643-744-21

KV-2185MT only

— C Board —

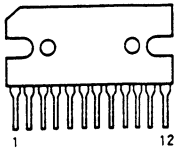


**NOTE:**

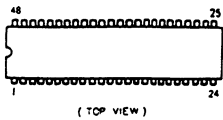
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

### 5-3. SEMICONDUCTORS

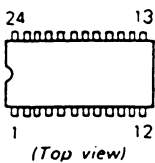
**BA5412**



**CXA1213BS**



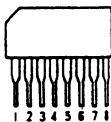
**CXA1214P**



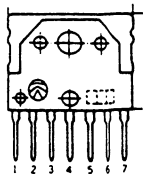
**HZT33-02**  
 $\mu$  PC574J



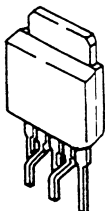
**LA7016**



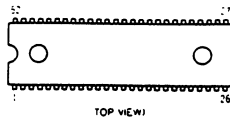
**LA7830**



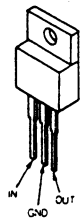
**L78LR05D-MA**



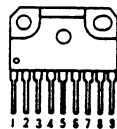
**M34302M8-611SP**



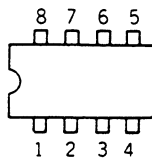
**NJM78M09FA**



**STR-S6307**

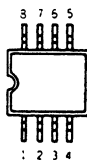


**ST24C02AB1**  
 $\mu$  PC4558C



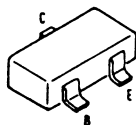
(Top view)

**PC111LS**

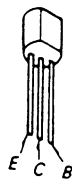


(TOP VIEW)

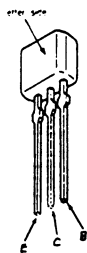
**DTA114EK**  
**DTC144EK**  
**2SA1162-YG**  
**2SC2712-YG**



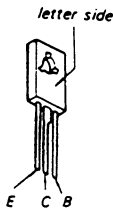
**2SA1091-O**  
**2S1091R**



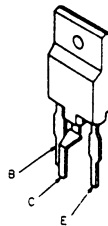
**2SC2785-HFE**



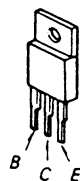
**2SC3271-N**



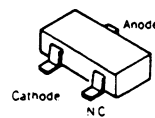
**2SD1878-CA**



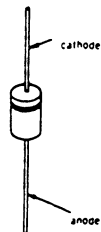
**2SD2012**  
**2SD2061-E**



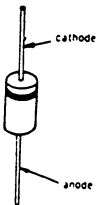
**DA204U**



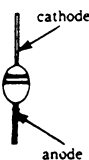
**ERC06-15S**  
**RGP10G**  
**RU-3AM**  
**R2M**



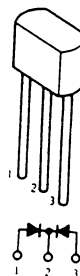
**EGP20G**  
**RGP02-17**  
**RGP15J**



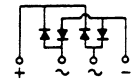
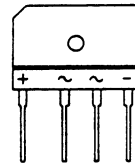
**GP08D**  
**U05G**



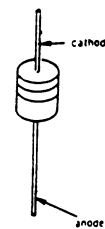
**MC921**



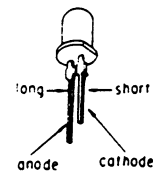
**RBV-406H-01**



**RD5.1ES-B2**  
**RD5.6ES-B2**  
**RD7.5ES-B2**  
**1SS119**



**SEL1222R-C**



SECTION 6  
EXPLODED VIEW

## NOTE:

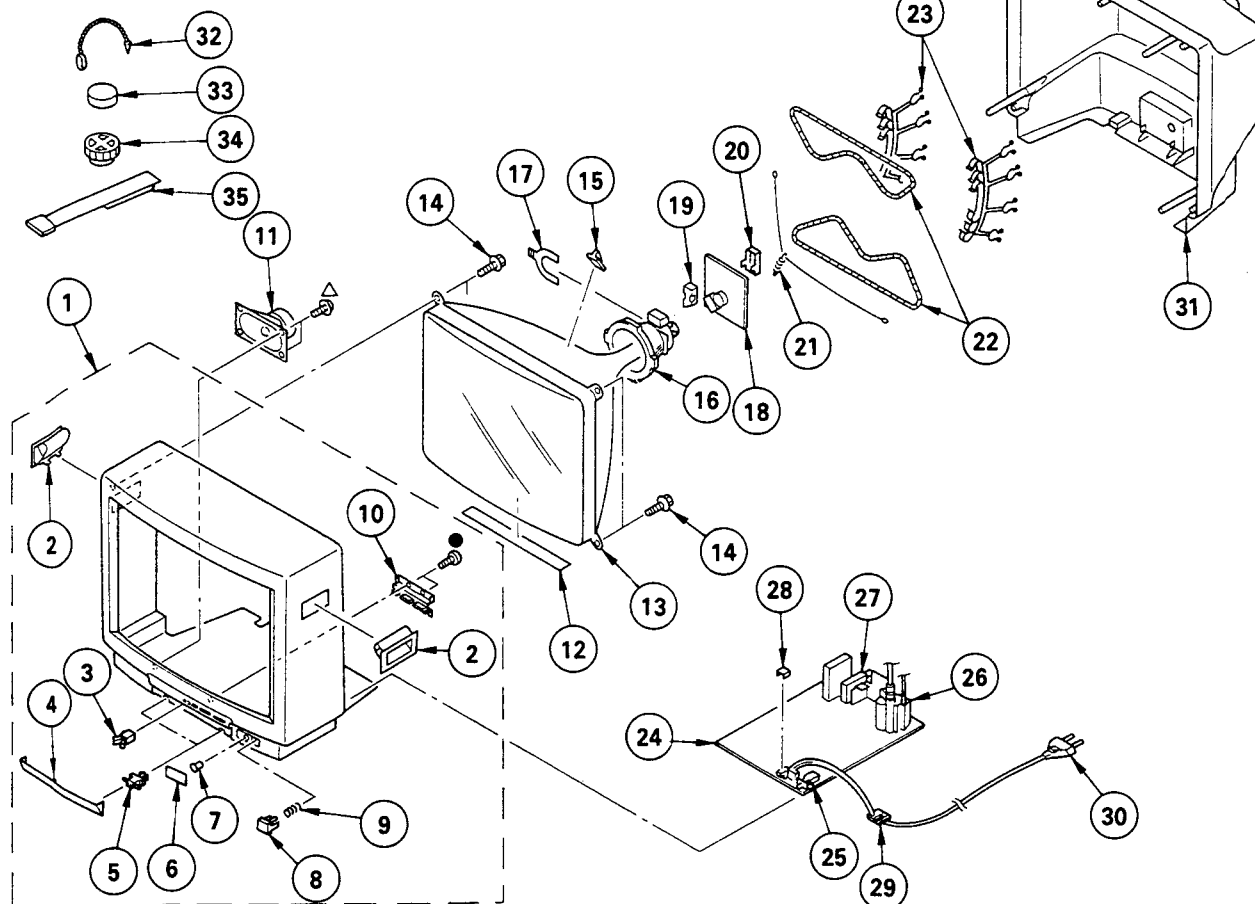
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

●: BVTP3  $\times$  12 7-685-648-79

$\Delta$ : BVTP3  $\times$  10 7-685-647-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4030-389-1	CABINET ASSY (WITH BEZEL ASSY)	2~10 (KV-2185MTJ)	15	3-704-495-01	SPACER, DY	
	X-4030-390-1	CABINET ASSY (WITH BEZEL ASSY)	2~10 (KV-2185MT)	16	$\Delta$ 1-451-280-11	DEFLECTION YOKE (Y21PXA2)	
2	4-313-702-91	HANDLE		17	1-452-277-00	MAGNET, BMC	
3	4-392-036-01	CATCHER, PUSH		18	*A-1331-211-A	C BOARD, COMPLETE	
4	4-036-426-01	DOOR, CONTROL (KV-2185MTJ)		19	*4-379-167-01	COVER (MAIN), CV	
	4-036-422-01	DOOR, CONTROL (KV-2185MT)		20	*4-379-160-01	COVER (REAR LID), CV	
5	3-662-365-00	SHAFT (S), DOOR (KV-2185MTJ)		21	4-369-318-00	SPRING, TENSION	
	4-032-761-01	SHAFT (S), DOOR (KV-2185MT)		22	$\Delta$ 1-426-368-11	COIL, DEMAGNETIZATION	
6	4-036-415-01	WINDOW, ORNAMENT (KV-2185MTJ)		23	*4-341-778-01	BAND, DEGAUSSING COIL	
	4-036-413-01	WINDOW, ORNAMENTAL (KV-2185MT)		24	*A-1296-953-A	A BOARD, COMPLETE	
7	*4-374-987-01	GUIDE, LIGHT (KV-2185MTJ)		25	$\Delta$ 1-571-433-12	SWITCH, PUSH (AC POWER)	
	*4-387-890-01	GUIDE, LIGHT (KV-2185MT)		26	$\Delta$ 1-439-536-11	TRANSFORMER ASSY, FLYBACK (NX-2140A1)	
8	4-036-419-01	BUTTON, POWER (KV-2185MTJ)		27	$\Delta$ 1-693-120-11	TUNER, ET (BT-RG321)	
	4-036-411-01	BUTTON, POWER (KV-2185MT)		28	*4-387-054-01	COVER, LED HOLDER	
9	4-036-405-01	SPRING, COMPRESSION (KV-2185MTJ)		29	$\Delta$ 4-022-115-01	HOLDER, AC CORD	
	4-036-405-11	SPRING, COMPRESSION (KV-2185MT)		30	$\Delta$ 1-574-062-12	CORD, POWER (WITH CONNECTOR) (KV-2185MTJ)	
10	4-036-424-01	BUTTON, MULTI (KV-2185MTJ)			$\Delta$ 1-574-062-22	CORD, POWER (WITH CONNECTOR) (KV-2185MT)	
	4-036-433-01	BUTTON, MULTI (KV-2185MT)		31	4-036-435-01	COVER, REAR (KV-2185MTJ)	
11	1-544-763-11	SPEAKER (12X5CM)			4-036-432-01	COVER, REAR (KV-2185MT)	
12	4-372-556-11	SHEET, BLOTING		32	4-308-870-00	CLIP, LEAD WIRE	
13	$\Delta$ 8-738-759-05	PICTURE TUBE (A51JUH11X)		33	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
14	4-365-808-01	SCREW (5), TAPPING		34	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
				35	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	



A

SECTION 7  
ELECTRICAL PARTS LIST

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

• All resistors are in ohms  
• F : nonflammable

When indicating parts by reference number, please include the board name.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ F

## COILS

• MMH : mH, UH :  $\mu$ H

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1296-953-A		A BOARD, COMPLETE *****		C046	1-124-907-11	ELECT 10MF	20% 50V
*4-341-751-01		EYELET (EY7~EY17, EY22, EY23, EY26~EY37, EY66, EY68, EY69, EY71~EY76, EY78, EY79, EY81, EY84~EY86, EY88, EY90, EY92, EY95~EY99, EY105, EY106, EY112, EY113, EY116, EY117)		C047	1-163-031-11	CERAMIC CHIP 0.01MF	50V
*4-341-752-01		EYELET (EY1~EY6, EY20, EY21, EY24, EY25, EY38~EY41, EY43, EY46, EY50~EY65, EY89, EY93, EY94, EY100~EY104, EY110, EY111, EY114, EY115)		C048	1-163-031-11	CERAMIC CHIP 0.01MF	50V
4-382-854-11		HOLDER, FBT		C082	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
		SCREW (M3X10), P, SW (+)		C083	1-124-907-11	ELECT 10MF	20% 50V
<CAPACITOR>				C084	1-126-233-11	ELECT 22MF	20% 50V
C001	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C085	1-130-487-00	MYLAR 0.022MF	5% 50V
C002	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C102	1-136-167-00	FILM 0.15MF	5% 50V
C003	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C103	1-124-120-11	ELECT 220MF	20% 16V
C004	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C105	1-136-167-00	FILM 0.15MF	5% 50V
C005	1-136-165-00	FILM 0.1MF	5% 50V	C106	1-124-120-11	ELECT 220MF	20% 16V
C006	1-124-925-11	ELECT 2.2MF	20% 50V	C107	1-124-907-11	ELECT 10MF	20% 50V
C007	1-130-495-00	MYLAR 0.1MF	5% 50V	C108	1-126-101-11	ELECT 100MF	20% 16V
C008	1-136-165-00	FILM 0.1MF	5% 50V	C110	1-124-907-11	ELECT 10MF	20% 50V
C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C111	1-124-477-11	ELECT 47MF	20% 16V
C010	1-163-241-11	CERAMIC CHIP 39PF	5% 50V	C112	1-124-477-11	ELECT 47MF	20% 16V
C011	1-163-241-11	CERAMIC CHIP 39PF	5% 50V	C113	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C013	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C115	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
C014	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C150	1-124-907-11	ELECT 10MF	20% 50V
C015	1-124-119-00	ELECT 330MF	20% 16V	C151	1-124-907-11	ELECT 10MF	20% 50V
C016	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C152	1-124-907-11	ELECT 10MF	20% 50V
C017	1-130-493-00	MYLAR 0.068MF	5% 50V	C153	1-124-907-11	ELECT 10MF	20% 50V
C018	1-130-493-00	MYLAR 0.068MF	5% 50V	C154	1-136-169-00	FILM 0.22MF	5% 50V
C019	1-126-233-11	ELECT 22MF	20% 50V	C202	1-136-173-00	FILM 0.47MF	5% 50V
C020	1-126-101-11	ELECT 100MF	20% 16V	C203	1-124-360-00	ELECT 1000MF	20% 16V
C021	1-126-233-11	ELECT 22MF	20% 50V	C210	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C023	1-130-495-00	MYLAR 0.1MF	5% 50V	C211	1-124-927-11	ELECT 4.7MF	20% 50V
C024	1-126-101-11	ELECT 100MF	20% 16V	C212	1-124-927-11	ELECT 4.7MF	20% 50V
C025	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	C251	1-124-557-11	ELECT 1000MF	20% 25V
C026	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C254	1-136-173-00	FILM 0.47MF	5% 50V
C027	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C256	1-124-557-11	ELECT 1000MF	20% 25V
C028	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C257	1-124-925-11	ELECT 2.2MF	20% 50V
C029	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C259	1-126-233-11	ELECT 22MF	20% 25V
C030	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C260	1-126-233-11	ELECT 22MF	20% 25V
C031	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C263	1-126-233-11	ELECT 22MF	20% 50V
C032	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C265	1-124-907-11	ELECT 10MF	20% 50V
C033	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C270	1-124-120-11	ELECT 220MF	20% 25V
C040	1-124-925-11	ELECT 2.2MF	20% 50V	C298	1-106-355-12	MYLAR 0.0027MF	10% 200V
C041	1-124-907-11	ELECT 10MF	20% 50V	C301	1-136-169-00	FILM 0.22MF	5% 50V
C043	1-124-907-11	ELECT 10MF	20% 50V	C302	1-124-927-11	ELECT 4.7MF	20% 50V
C044	1-124-907-11	ELECT 10MF	20% 50V	C303	1-136-169-00	FILM 0.22MF	5% 50V
C045	1-124-903-11	ELECT 1MF	20% 50V	C304	1-136-169-00	FILM 0.22MF	5% 50V
				C305	1-136-169-00	FILM 0.22MF	5% 50V
				C306	1-124-360-00	ELECT 1000MF	20% 16V
				C307	1-163-035-00	CERAMIC CHIP 0.047MF	50V
				C308	1-163-033-00	CERAMIC CHIP 0.022MF	50V
				C309	1-124-903-11	ELECT 1MF	20% 50V
				C310	1-130-495-00	MYLAR 0.1MF	5% 50V
				C311	1-126-101-11	ELECT 100MF	20% 16V
				C312	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C313	1-136-173-00	FILM 0.47MF	5% 50V




**A**

The components identified by shading and mark **Δ** are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CP005	1-239-347-21	NETWORK, RES		FB602	1-410-397-21	FERRITE BEAD INDUCTOR	
CP301	1-236-730-11	NETWORK, C		FB801	1-410-397-21	FERRITE BEAD INDUCTOR	
				FB802	1-410-397-21	FERRITE BEAD INDUCTOR	
		<TRIMMER>				<IC>	
CV358	1-141-245-00	TRIMMER, CERAMIC		IC001	8-759-072-35	IC M34302M8-611SP	
CV443	1-141-245-00	TRIMMER, CERAMIC		IC002	8-741-100-62	IC SBX1618-51	
		<DIODE>		IC003	8-759-043-86	IC ST24C02AB1	
D002	8-719-911-19	DIODE 1SS119		IC004	8-759-157-40	IC UPC574J	
D003	8-719-911-19	DIODE 1SS119		IC005	8-759-805-37	IC L78LR05D-MA	
D004	8-719-911-19	DIODE 1SS119		IC101	8-759-800-81	IC LA7016	
D005	8-719-311-89	DIODE SEL1222R-C		IC102	8-759-800-81	IC LA7016	
D006	8-719-911-19	DIODE 1SS119		IC104	8-759-145-58	IC UPC4558C	
				IC251	8-759-501-93	IC BA5412	
D007	8-719-911-19	DIODE 1SS119		IC301	8-752-036-21	IC CXA1213S	
D008	8-719-911-19	DIODE 1SS119		IC401	8-752-056-67	IC CXA1214P	
D009	8-719-911-19	DIODE 1SS119		IC551	8-759-801-98	IC LA7830	
D010	8-719-911-19	DIODE 1SS119		IC601Δ	8-749-920-67	IC STR-S6307	
D011	8-719-911-19	DIODE 1SS119		IC602	8-749-921-89	IC SE115N	
				IC603Δ	8-719-987-48	PHOTO COUPLER PC111LS	
D012	8-719-911-19	DIODE 1SS119		IC801	8-759-145-58	IC UPC4558C	
D014	8-719-911-19	DIODE 1SS119		IC851	8-759-982-34	IC RC78M09FA	
D016	8-719-911-19	DIODE 1SS119				<IF BLOCK>	
D151	8-719-109-85	DIODE RD5.1ES-B2		IF201	1-466-138-11	IF BLOCK (IFD-380A)	
D155	8-719-911-19	DIODE 1SS119				<JACK>	
D250	8-719-911-19	DIODE 1SS119		J101	1-695-239-11	JACK BLOCK, PIN 2P	
D251	8-719-911-19	DIODE 1SS119		J102	1-695-238-11	JACK BLOCK, PIN 2P	
D252	8-719-941-23	DIODE DA204U		J251	1-562-837-21	JACK	
D310	8-719-000-06	DIODE MC921				<COIL>	
D320	8-719-911-19	DIODE 1SS119		L001	1-408-397-00	INDUCTOR 1UH	
				L004	1-410-476-11	INDUCTOR 33UH	
D321	8-719-109-89	DIODE RD5.6ES-B2		L005	1-410-470-11	INDUCTOR 10UH	
D551	8-719-911-55	DIODE U05G		L151	1-410-470-11	INDUCTOR 10UH	
D561	8-719-911-19	DIODE 1SS119		L301	1-408-406-00	INDUCTOR 5.6UH	
D601	8-719-311-72	DIODE RBV-406H-01					
D602	8-719-300-33	DIODE RU-3AM		L401	1-410-472-41	INDUCTOR 15UH	
				L402	1-410-472-41	INDUCTOR 15UH	
D603	8-719-911-19	DIODE 1SS119		L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
D604	8-719-300-33	DIODE RU-3AM		L805	1-459-769-13	COIL, HORIZONTAL LINEARITY	
D605	8-719-979-85	DIODE EGP20G		L807	1-459-390-00	COIL (WITH CORE)	
D607	8-719-911-19	DIODE 1SS119					
D608	8-719-303-49	DIODE R2M		L808	1-412-553-11	INDUCTOR 3.3MMH	
				L810	1-408-947-00	INDUCTOR 2.2MMH	
D801	8-719-945-80	DIODE ERC06-15S		L821	1-459-111-00	COIL, DRAM CORE (CDI)	
D802	8-719-979-85	DIODE EGP20G				<IC LINK>	
D803	8-719-110-03	DIODE RD7.5ES-B2		PS801Δ	1-532-685-91	LINK, IC 0.8A	
D851	8-719-300-33	DIODE RU-3AM				<TRANSISTOR>	
D852	8-719-028-71	DIODE ES1FLF-G		Q001	8-729-230-49	TRANSISTOR 2SC2712-YG	
				Q002	8-729-230-49	TRANSISTOR 2SC2712-YG	
D853	8-719-300-33	DIODE RU-3AM		Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D855	8-719-300-33	DIODE RU-3AM		Q004	8-729-230-49	TRANSISTOR 2SC2712-YG	
D857	8-719-911-55	DIODE U05G		Q005	8-729-230-49	TRANSISTOR 2SC2712-YG	
D858	8-719-911-55	DIODE U05G					
D860	8-719-911-19	DIODE 1SS119		Q006	8-729-901-01	TRANSISTOR DTC144EK	
		<DELAY LINE>		Q007	8-729-901-01	TRANSISTOR DTC144EK	
DL301	1-415-122-31	DELAY LINE, 1H (PAL)		Q101	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<FUSE>					
F601 Δ	1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V					
	1-533-223-11	CLIP, FUSE; F601					
		<FERRITE BEAD>					
FB251	1-410-397-21	FERRITE BEAD INDUCTOR					
FB601	1-410-397-21	FERRITE BEAD INDUCTOR					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q102	8-729-230-49	TRANSISTOR 2SC2712-YG		R028	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q151	8-729-901-04	TRANSISTOR DTA114EK		R029	1-216-085-00	METAL GLAZE 33K 5%	1/10W
Q152	8-729-230-49	TRANSISTOR 2SC2712-YG		R030	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q153	8-729-901-04	TRANSISTOR DTA114EK		R031	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q154	8-729-901-04	TRANSISTOR DTA114EK		R033	1-216-085-00	METAL GLAZE 33K 5%	1/10W
Q201	8-729-230-49	TRANSISTOR 2SC2712-YG		R034	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q202	8-729-230-49	TRANSISTOR 2SC2712-YG		R035	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q251	8-729-901-01	TRANSISTOR DTC144EK		R037	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
Q252	8-729-901-01	TRANSISTOR DTC144EK		R038	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG		R039	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG		R040	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q303	8-729-230-46	TRANSISTOR 2SA1162-YG		R042	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q304	8-729-230-49	TRANSISTOR 2SC2712-YG		R043	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q305	8-729-230-49	TRANSISTOR 2SC2712-YG		R044	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q306	8-729-230-49	TRANSISTOR 2SC2712-YG		R045	1-216-113-00	METAL GLAZE 470K 5%	1/10W
Q310	8-729-901-01	TRANSISTOR DTC144EK		R046	1-216-105-00	METAL GLAZE 220K 5%	1/10W
Q401	8-729-230-49	TRANSISTOR 2SC2712-YG		R047	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q522	8-729-901-01	TRANSISTOR DTC144EK		R048	1-216-121-00	METAL GLAZE 1M 5%	1/10W
Q551	8-729-901-01	TRANSISTOR DTC144EK		R050	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q553	8-729-901-01	TRANSISTOR DTC144EK		R051	1-216-105-00	METAL GLAZE 220K 5%	1/10W
Q555	8-729-901-01	TRANSISTOR DTC144EK		R052	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q561	8-729-200-17	TRANSISTOR 2SA1091-0		R053	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q601	8-729-230-46	TRANSISTOR 2SA1162-YG		R054	1-216-101-00	METAL GLAZE 150K 5%	1/10W
Q603	8-729-230-49	TRANSISTOR 2SC2712-YG		R055	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q801	8-729-140-50	TRANSISTOR 2SC3209LK		R056	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q802	8-729-821-87	TRANSISTOR 2SD1878-CA		R057	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q803	8-729-230-49	TRANSISTOR 2SC2712-YG		R058	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q821	8-729-209-15	TRANSISTOR 2SD2012		R061	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q851	8-729-230-46	TRANSISTOR 2SA1162-YG		R062	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
<RESISTOR>				R063	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
JR1	1-216-295-00	METAL GLAZE 0 5%	1/10W	R064	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
JR2	1-216-295-00	METAL GLAZE 0 5%	1/10W	R065	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
JR3	1-216-295-00	METAL GLAZE 0 5%	1/10W	R066	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
JR4	1-216-295-00	METAL GLAZE 0 5%	1/10W	R081	1-216-041-00	METAL GLAZE 470 5%	1/10W
JR5	1-216-295-00	METAL GLAZE 0 5%	1/10W	R102	1-216-091-00	METAL GLAZE 56K 5%	1/10W
JR6	1-216-295-00	METAL GLAZE 0 5%	1/10W	R103	1-216-023-00	METAL GLAZE 82 5%	1/10W
JR7	1-216-295-00	METAL GLAZE 0 5%	1/10W	R105	1-216-091-00	METAL GLAZE 56K 5%	1/10W
RO01	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R106	1-216-023-00	METAL GLAZE 82 5%	1/10W
RO02	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R107	1-216-041-00	METAL GLAZE 470 5%	1/10W
RO03	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R108	1-216-041-00	METAL GLAZE 470 5%	1/10W
RO04	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R109	1-216-049-00	METAL GLAZE 1K 5%	1/10W
RO05	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R110	1-216-041-00	METAL GLAZE 470 5%	1/10W
RO06	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R111	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
RO07	1-216-099-00	METAL GLAZE 120K 5%	1/10W	R112	1-216-073-00	METAL GLAZE 10K 5%	1/10W
RO09	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R113	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
RO10	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R119	1-216-689-11	METAL GLAZE 39K 5%	1/10W
RO11	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R121	1-216-689-11	METAL GLAZE 39K 5%	1/10W
RO12	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R151	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
RO13	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R155	1-216-041-00	METAL GLAZE 470 5%	1/10W
RO14	1-216-464-11	METAL OXIDE 18K 5%	2W F	R156	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
RO16	1-216-039-00	METAL GLAZE 390 5%	1/10W	R180	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
RO17	1-216-029-00	METAL GLAZE 150 5%	1/10W	R201	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
RO18	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R202	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
RO19	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R203	1-249-424-11	CARBON 3.9K 5%	1/4W
RO20	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R205	1-216-085-00	METAL GLAZE 33K 5%	1/10W
RO21	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R206	1-216-075-00	METAL GLAZE 12K 5%	1/10W
RO22	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R210	1-216-079-00	METAL GLAZE 18K 5%	1/10W
RO23	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R211	1-216-049-00	METAL GLAZE 1K 5%	1/10W
RO24	1-216-109-00	METAL GLAZE 330K 5%	1/10W	R212	1-216-073-00	METAL GLAZE 10K 5%	1/10W
RO25	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R220	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
RO26	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R221	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
RO27	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R250	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
				R253	1-216-085-00	METAL GLAZE 33K 5%	1/10W

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

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The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

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C

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
RV502	1-241-630-11	RES, ADJ, CARBON 10K		C711	1-162-116-00	CERAMIC 680PF	10% 2KV
RV503	1-238-566-21	RES, ADJ, CARBON 220		C712	1-124-907-11	ELECT 10MF	20% 50V
RV551	1-224-250-99	RES, ADJ, METAL GLAZE 2.2K		C713	1-162-116-00	CERAMIC 680PF	10% 2KV
RV552	1-241-627-11	RES, ADJ, CARBON 1K					
RV801	1-223-102-21	RES, ADJ, WIREWOUND 120		C714	1-162-622-11	CERAMIC 330PF	10% 6.3KV
RV802	1-241-632-11	RES, ADJ, CARBON 47K					
RV803	1-241-632-11	RES, ADJ, CARBON 47K					
		<SWITCH>					
S601	Δ.1-571-433-12	SWITCH, PUSH (AC POWER)					
		<SPARK GAP>					
SG801	1-519-422-11	GAP, SPARK					
		<TRANSFORMER>					
T301	1-404-524-11	DAT					
T401	1-404-496-00	COIL					
T402	1-404-496-00	COIL					
T403	1-404-584-11	COIL					
T601	Δ.1-450-988-11	TRANSFORMER, CONVERTER (SRT)					
T605	Δ.1-424-682-11	TRANSFORMER, LINE FILTER					
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE					
T851	Δ.1-439-536-11	TRANSFORMER ASSY, FLYBACK (NX-2740A1)					
		<THERMISTOR>					
THP601	Δ.1-808-059-32	THERMISTOR, POSITIVE					
		<TUNER>					
TU151	Δ.1-693-120-11	TUNER, ET (BT-RG321)					
		<CRYSTAL>					
X301	1-577-611-11	OSCILALTOR, CERAMIC					
X358	1-567-505-11	OSCILLATOR, CRYSTAL					
X443	1-567-504-11	OSCILLATOR, CRYSTAL					
		<MODULE>					
YCM301	1-235-833-11	YC MODULE					
YCM302	1-236-228-11	FILTER MODULE					
*****							
*A-1331-211-A	C BOARD, COMPLETE						
	*****						
*4-341-751-01	EYELET (EY1,EY2,EY7,EY8)						
*4-341-752-01	EYELET (EY3-EY6)						
*4-379-160-01	COVER (REAR LID), CV						
*4-379-167-01	COVER (MAIN), CV						
		<CAPACITOR>					
C701	1-124-907-11	ELECT 10MF	20% 50V				
C702	1-101-006-00	CERAMIC 0.047MF	50V				
C703	1-102-113-00	CERAMIC 390PF	10% 50V				
C704	1-102-112-00	CERAMIC 330PF	10% 50V				
C705	1-102-112-00	CERAMIC 330PF	10% 50V				
C709	1-136-601-11	FILM 0.01MF	10% 630V				
C710	1-102-038-00	CERAMIC 0.001MF	500V				
		<CONNECTOR>					
CN701	*1-506-371-00	PIN, CONNECTOR 2P					
CN702	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P					
CN703	*1-564-509-11	PLUG, CONNECTOR 6P					
		<JACK>					
J701	Δ.1-526-990-13	SOCKET, PICTURE TUBE					
		<COIL>					
L701	1-408-423-00	INDUCTOR 150UH					
		<TRANSISTOR>					
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q703	8-729-906-39	TRANSISTOR 2SC3271-P					
Q704	8-729-906-39	TRANSISTOR 2SC3271-P					
Q705	8-729-906-39	TRANSISTOR 2SC3271-P					
		<RESISTOR>					
R701	1-249-405-11	CARBON 100 5%	1/4W				
R702	1-249-407-11	CARBON 150 5%	1/4W				
R703	1-249-416-11	CARBON 820 5%	1/4W				
R704	1-249-412-11	CARBON 390 5%	1/4W				
R705	1-249-405-11	CARBON 100 5%	1/4W				
R706	1-249-423-11	CARBON 3.3K 5%	1/4W				
R707	1-249-413-11	CARBON 470 5%	1/4W				
R708	1-249-412-11	CARBON 390 5%	1/4W				
R709	1-249-405-11	CARBON 100 5%	1/4W				
R710	1-249-423-11	CARBON 3.3K 5%	1/4W				
R711	1-249-413-11	CARBON 470 5%	1/4W				
R712	1-249-412-11	CARBON 390 5%	1/4W				
R713	1-249-405-11	CARBON 100 5%	1/4W				
R714	1-249-423-11	CARBON 3.3K 5%	1/4W				
R715	1-249-405-11	CARBON 100 5%	1/4W				
R716	1-249-405-11	CARBON 100 5%	1/4W				
R717	1-249-405-11	CARBON 100 5%	1/4W				
R718	1-202-838-00	SOLID 100K 20%	1/2W				
R719	1-202-883-11	SOLID 680K 20%	1/2W				
R720	1-202-838-00	SOLID 100K 20%	1/2W				
R722	1-202-846-00	SOLID 470K 20%	1/2W				
R723	1-202-837-00	SOLID 82K 20%	1/2W				
R724	1-202-549-00	SOLID 100 20%	1/2W				
R725	1-216-391-11	METAL OXIDE 1.5 5%	3W				F
R726	1-202-842-11	SOLID 220K 20%	1/2W				
R727	1-202-824-00	SOLID 3.3K 20%	1/2W				
R728	1-215-924-00	METAL OXIDE 15K 5%	3W				F
R729	1-202-824-00	SOLID 3.3K 20%	1/2W				
R730	1-215-924-00	METAL OXIDE 15K 5%	3W				F
R731	1-202-824-00	SOLID 3.3K 20%	1/2W				
R732	1-215-924-00	METAL OXIDE 15K 5%	3W				F
R733	1-202-838-00	SOLID 100K 20%	1/2W				

C

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
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## &lt;VARIABLE RESISTOR&gt;

RV702	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV703	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV704	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV705	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV706	1-241-121-11	RES, ADJ, CARBON 4.7K	
RV707	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV708	1-230-619-11	RES, ADJ, METAL GLAZE 110M	

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## MISCELLANEOUS

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$\Delta$ 1-426-368-11	COIL, DEMAGNETIZATION
$\Delta$ 1-451-280-11	DEFLECTION YOKE (Y21PXA2)
1-452-032-00	MAGNET, DISK; 10MM $\phi$
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$
1-452-277-00	MAGNET, BMC
1-544-763-11	SPEAKER (12X5CM)
$\Delta$ 1-574-062-12	CORD, POWER (WITH CONNECTOR) (KV-2185MTJ)
$\Delta$ 1-574-062-22	CORD, POWER (WITH CONNECTOR) (KV-2185MT)

V901  $\Delta$  8-738-759-05 PICTURE TUBE (A51JUH11X)

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## ACCESSORIES AND PACKING MATERIALS

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1-417-151-21	MATCHING TRANSFORMER, ANTENNA
1-501-372-81	ANTENNA, TELESCOPIC (KV-2185MTJ)
1-569-008-11	ADAPTER, CONVERSION 2P
3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)
4-392-003-01	BAND, HOLD
4-392-004-01	CLIP
3-755-585-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/CHINESE/ARABIC/PERSIAN)
*4-035-560-01	CUSHION (UPPER) (ASSY) (KV-2185MTJ)
*4-035-561-01	CUSHION (LOWER) (ASSY) (KV-2185MTJ)
*4-036-040-01	INDIVIDUAL CARTON (KV-2185MTJ)
*4-384-027-01	BAG, PROTECTION (KV-2185MTJ)
*4-036-285-01	CUSHION (UPPER) (ASSY) (KV-2185MT)
*4-036-286-01	CUSHION (LOWER) (ASSY) (KV-2185MT)
*4-036-291-01	INDIVIDUAL CARTON (KV-2185MT)
*4-395-957-01	BAG, PROTECTION (KV-2185MT)

## REMOTE COMMANDER

1-693-143-11	REMOTE COMMANDER (RM-827S)
9-902-546-01	COVER, BATTERY (FOR RM-827S)